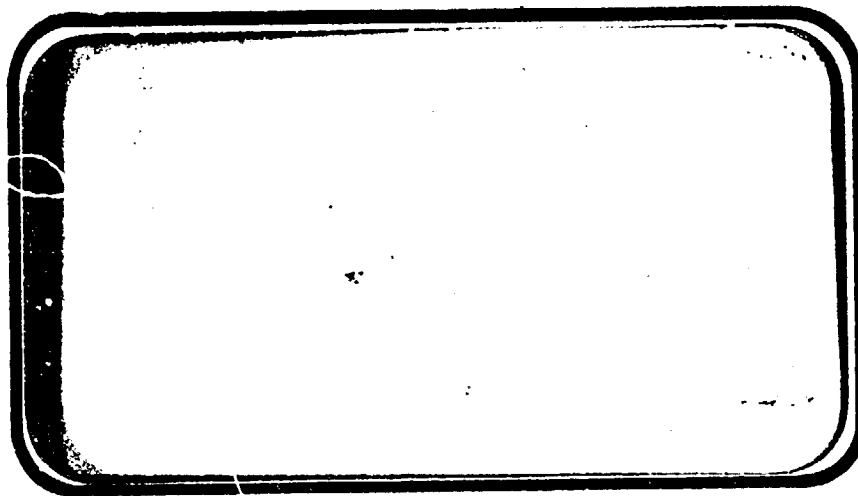


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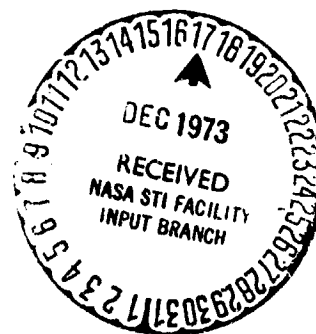
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SHUTTLE VEHICLE ORBITER IN THE ANES 6 BY
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

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WIND TUNNEL TEST OF THE 0.015-SCALE ROCKWELL
INTERNATIONAL SPACE SHUTTLE VEHICLE ORBITER IN
THE AMES 6- BY 6-FOOT SUPERSONIC WIND TUNNEL

By

M. D. Milam and T. J. Dziubala
Rockwell International

Prepared under NASA Contract Number NAS9-13247

by

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Johnson Space Center
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Houston, Texas

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WIND TUNNEL TEST OF THE 0.015-SCALE ROCKWELL
INTERNATIONAL SPACE SHUTTLE VEHICLE ORBITER IN
THE AMES 6- BY 6-FOOT SUPERSONIC WIND TUNNEL

By M. D. Milam and T. J. Dziubala

ABSTRACT

Experimental investigations were performed in the Ames Research Center 6- by 6-Foot Supersonic Wind Tunnel on a 0.015-scale model of the Rockwell International Space Shuttle Vehicle (SSV) 2A orbiter in the period of April 18 through May 4, 1973. The purpose of the test was to investigate the longitudinal and lateral-directional characteristics of the vehicle. In addition, hinge moments were measured on the rudder and elevons. Buffet onset was investigated using wing trailing edge pressures and a strain gauge instrumented panel mounted in the wing.

The model was tested through a Mach range from 0.6 to 2.0 at a constant unit Reynolds number of 2.5 million. Pitch runs were made at angles of attack from -2° to $+26^\circ$ with $\beta = 0^\circ$ and 5° ; yaw runs were made in the range from -5° to 10° of sideslip at angles of attack of 0° and 10° . Static pressures were measured at the fuselage base and the trailing edges of the wing and rudder. Boundary layer transition was fixed for some runs using distributed roughness strips.

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- (1) CL, CD, CDF, CA, CAF, CAB, CN, L/D, XCP/L vs. ALPHA; CL vs. CD;
CL, CN vs. CLM; CLM (FWD. C.G.), CLM (AFT C.G.) vs. ALPHA
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INTRODUCTION

Tests were performed on a 0.015-scale model of the Rockwell International Space Shuttle Vehicle 2A orbiter in the Ames Research Center 6- by 6-Foot Supersonic Wind Tunnel during the interim of April 18 through May 4, 1973. The shuttle program test identification number is OA43 and the NASA Ames designation is 66-706.

The primary test objectives were:

- a. to verify estimates of the stability and control of the baseline 2A configuration;
- b. to evaluate the effects of camber by testing a wing of identical planform composed of symmetrical airfoil sections;
- c. to determine elevon, aileron and rudder effectiveness;
- d. to determine the effect of the body flap on trim;
- e. to determine the effect of the speed brake on longitudinal characteristics;
- f. to measure hinge moments acting on the rudder and right wing elevons;
- g. to determine buffet onset by means of wing trailing edge pressure taps and a strain gauge-instrumented panel mounted in the wing. Boundary layer transition was fixed for this portion of the test using strips of distributed roughness. Effectiveness of the trips was verified at $M = 1.2$ by means of sublimation techniques.

In addition, pressures were measured at the base of the speed brake and fuselage; the latter were used to provide an adjustment to axial force.

The model was tested in pitch from -2° to 26° at sideslip angles of 0° and 5° and in sideslip from -5° to 10° at angles of attack of 0° and 10° . Tunnel conditions were varied from $M = 0.6$ to 2.0 at a unit Reynolds number of 2.5 million.

Personnel involved in the test include M.D. Milam and T.J. Dziubala (Rockwell wind tunnel representatives) T. Cornelius and C. McGloughlin (Rockwell aerodynamics representatives) and T. McGrath (ARO project engineer).

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CLL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

In addition to the standard notation, the following are special to this test.

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{heI}	CHEI	inboard elevon hinge-moment coefficient, positive tending to turn trailing edge down
C_{heO}	CHEO	outboard elevon hinge-moment coefficient, positive tending to turn trailing edge down
C_{heT}	CHE	sum of CHEI and CHEO
C_{hR}	CHR	rudder hinge-moment coefficient, positive tending to turn trailing edge to left
Cl_{β}	CHLBFT	slope $dC_l/d\beta$, $\beta = -5^\circ$ to $+5^\circ$
$C_{Y\beta}$	CYBETA	slope $dC_y/d\beta$, $\beta = -5^\circ$ to $+5^\circ$
$C_{n\beta}$	CYNBET	slope $dC_n/d\beta$, $\beta = -5^\circ$ to $+5^\circ$
$C_{h\beta}$	DCHRDB	slope $dC_h/d\beta$
$C_{h\delta R}$	DCHRDR	$(C_{h\delta R=X^\circ} - C_{h\delta R=0^\circ})/\delta R = X^\circ$
$Cl_{\delta a}$	DCELDA	$(Cl_{\delta a=X^\circ} - Cl_{\delta a=0^\circ})/\delta a = X^\circ$
$C_{n\delta a}$	DCYNDA	$(C_{n\delta a=X^\circ} - C_{n\delta a=0^\circ})/\delta a = X^\circ$
$C_{Y\delta a}$	DCY/DA	$(C_{Y\delta a=X^\circ} - C_{Y\delta a=0^\circ})/\delta a = X^\circ$
Cl_{β}	DCHLDB	$(Cl_{\beta=X^\circ} - Cl_{\beta=0^\circ})/\beta = X^\circ$
$C_{n\beta}$	DCYNDB	$(C_{n\beta=X^\circ} - C_{n\beta=0^\circ})/\beta = X^\circ$
$C_{Y\beta}$	DCY/DB	$(C_{Y\beta=X^\circ} - C_{Y\beta=0^\circ})/\beta = X^\circ$

$C_{l_{\delta R}}$	DCBLDR	$(C_{l_{\delta R=X^\circ}} - C_{l_{\delta R=0^\circ}})/\delta R=X^\circ$
$C_{n_{\delta R}}$	DCYNDR	$(C_{n_{\delta R=X^\circ}} - C_{n_{\delta R=0^\circ}})/\delta R=X^\circ$
$C_{Y_{\delta R}}$	DCY/DR	$(C_{Y_{\delta R=X^\circ}} - C_{Y_{\delta R=0^\circ}})/\delta R=X^\circ$
ΔC_A	DCA	incremental axial-force coefficient
ΔC_{A_B}	DCAB	incremental base axial-force coefficient
ΔC_{A_F}	DCAF	incremental forebody axial-force coefficient
ΔC_D	DCD	incremental drag coefficient
ΔC_{D_F}	DCDF	incremental forebody drag coefficient
$\Delta C_{h_{e_T}}$	DCHE	incremental hinge-moment coefficient
ΔC_L	DCL	incremental lift coefficient
ΔC_l	DCBL	incremental rolling-moment coefficient
ΔC_m	DCLM	incremental pitching-moment coefficient
ΔC_N	DCN	incremental normal-force coefficient
ΔC_n	DCYN	incremental yawing-moment coefficient
ΔC_Y	DCY	incremental side-force coefficient
$C_{D_{\alpha=0}}$	CDAFO	drag coefficient at $\alpha=0$
$C_{D_F_{\alpha=0}}$	CDFAFO	forebody drag coefficient at $\alpha=0$
$C_{L_{\alpha=0}}$	CLAWO	lift coefficient at $\alpha = 0$

C_{L_α}	CLALFA	derivative of lift coefficient with respect to α , $\alpha = -5^\circ$ to $+5^\circ$
$C_{m_{\alpha=0}}$	CLMAFO	pitching-moment coefficient at $\alpha=0$
$C_{m_{C_L=0}}$	CLMCLO	pitching-moment coefficient at $C_L=0$
$\alpha(L/D)_{MAX}$	ALFLDX	alpha at $(L/D)_{MAX}$
$(L/D)_{MAX}$	L/DMAX	maximum value of L/D
X_{CP}/L	XCP/L	nondimensional center of pressure
C_{PB_i}	CPBI	fuselage base pressure coefficient; subscripts i indicates tap numbers 1-9 defined in sketch
C_{PSC_i}	CPSCI	fuselage sting cavity pressure coefficient; subscript i indicates tap number 1 or 2
C_{PV_i}	CPVI	rudder base pressure coefficient subscript i indicates tap number 1 or 2 as defined in sketch
C_{PW_i}	CPWI	wing trailing edge pressure coefficients; subscripts i indicates tap numbers 1-7 as defined in sketch
δa	AILRON	aileron deflection angle, deg., positive trailing edge deflected down
δBF	BODFLP	body flap deflection angle, deg., positive for trailing edge deflected down
δe	ELEVON	elevon deflection angle, deg., positive for trailing edge deflected down
δR	RUDDER	rudder deflection angle, def., positive for trailing edge deflected to left
δSB	SPDBRK	speed brake deflection angle, deg.

CONFIGURATIONS INVESTIGATED

The test article was a 0.015-scale model of the Rockwell International Space Shuttle Orbiter 2A configuration, constructed entirely of Armco 17-4 stainless steel and consisting of the following components:

Fuselage with canopy, manipulator arm housing and a body flap with settings of 0° , 8.75° , 13.75° and 14.25° . Nine flush static pressure taps in the base of the fuselage and two taps in sting cavity (see figure 3b) were connected to an S-model, 48-port scanivalve located within the forward fuselage.

Baseline cambered wing. Elevons on the right hand wing were instrumented with strain-gauged beams for measurement of moments about the hinge line. Elevons on the left hand wing contained a total of seven flush pressure taps in the trailing edge which connected to the scanivalve in the fuselage to provide buffet-onset data. Fixed angle brackets were available for elevon deflections of 0° , $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$, -20° , -25° , -35° and -40° . A removable panel, instrumented with semi-conductor strain gauges was mounted in the lower surface of the left hand wing to determine buffet-onset.

Uncambered wing with the same planform as the baseline wing but with no elevon cutouts or other instrumentation.

Vertical tail equipped with a strain-gauge instrumented beam for measurement of rudder hinge moments. Alternate rudders were employed with speed brake flare angles of 0° , 24.9° and 54.9° ; the latter two settings had two flush static pressure orifices located within recesses

in the base of the speed brake.

OMS-RCS pods complete with simulated rocket nozzles.

Boundary layer trips consisting of distributed roughness particles in bands 0.06 inch wide were applied one inch aft of the fuselage nose and 0.6 inch streamwise aft of the wing, wing cuff and vertical tail leading edges. As an alternate condition, the grit strip on the upper surface of the wing was relocated at twenty-five percent of the local chord. Spheres of .0053-in diameter were used for all trips except the one at twenty-five percent chord which was comprised of .0075 in diameter particles. These grit heights were determined using methods described in reference 1.

Configuration Nomenclature

<u>Symbol</u>	<u>Description</u>
B ₁₀	Fuselage for the 2A orbiter configuration (VL70-000089B, 92A, 93, 94)
C ₅	Basic 2A canopy (VL70-000092)
D ₇	Basic 2A manipulator arm housing (VL70-000092A, 93, 94)
E ₁₈	Elevons for the basic 2A wing (VL70-000093)
F ₄	Basic 2A body flap (VL70-000094)
M ₃	Basic 2A OMS-RCS pods (VL70-000094)
R ₅	Basic 2A rudder (VL70-000095)

- V₅ Basic 2A vertical tail (VL70-000095)
- W₈₇ Basic 2A cambered wing (VL70-000093)
- W₈₈ Uncambered wing with same planform as W₈₇ (VL70-006031)
- X₁₄ Transition strips consisting of 0.06-inch wide bands of 0.0053-inch diameter particles located 0.6 inch streamwise aft of the leading edges of the wing, cuff and vertical tail (both sides) and at 1.0 inch aft of the fuselage nose
- X₁₅ Transition strips same as X₁₄ but with upper wing surface grit size increased to 0.0075 inch and located at 25 percent of local chord length.

Configurations Tested

See table 2 for the configurations tested.

Orbiter = B₁₀ C₅ D₇ M₃ F₄ W₈₇ E₁₈ V₅ R₅.

TEST FACILITY

The Ames Research Center 6-by 6-Foot Supersonic Wind Tunnel is a variable pressure, continuous flow facility. The nozzle leading to the test section is of the asymmetric sliding-block type which permits a continuous variation of Mach number from 0.6 to 2.3. The test section has a perforated floor and ceiling with provisions for boundary layer removal.

TESTING AND PROCEDURE

The investigation was conducted at Mach numbers 0.6 to 2.0 and at unit Reynolds number 2.5×10^6 /ft. Data were obtained at nominal space shuttle angles of attack from -2 to 26 degrees and at sideslip angles from -5 to 10 degrees. For a listing of test conditions, see table 1.

Elevon, rudder, speed brake and body flap deflections were investigated. Several stages of model buildup were also investigated. An uncambered wing with the same planform as the cambered wing was run to obtain a base from which to compare data. During a portion of the test, grit was applied to the model in two configurations; this part of the test was used specifically to study buffet onset.

Boundary layer trips consisting of distributed roughness particles in bands 0.06 inch wide were applied one inch aft of the fuselage nose and 0.6 inch streamwise aft of the wing, wing cuff and vertical tail leading edges. As an alternate condition, the grit strip on the upper surface of the wing was relocated at 25% of the local chord. Spheres of .0053-in. diameter were used for all trips except the one at twenty-five percent chord which was comprised of .0075-in. diameter particles. These grit heights were determined using methods described in reference 1.

The model was sting mounted through the fuselage base. Force and moment data were obtained from an internally mounted six-component strain-gage balance. Twenty model pressures were measured including two sting cavity, nine base, two rudder trailing edge and seven left wing trailing edge pressures. The right wing inner and outer elevons and rudder were

instrumented using strain gages to give hinge moments. During the buffet onset portion of the test, a strain-gage instrumented plate was attached to the left wing and root-mean-square data of the varying load were obtained.

DATA REDUCTION

The balance data were reduced to coefficient form and corrected for model weight tares, base and balance cavity pressures and model support deflections due to air loads. Two sets of longitudinal stability coefficients were calculated, one was based on C_A , axial-force coefficient with balance cavity pressure adjusted to the weighted average base pressure and one based on C_{A_F} , axial-force coefficient with balance cavity and weighted average base pressure adjusted to freestream static pressure.

The balance cavity axial-force coefficient resulting from the balance cavity pressure was calculated as indicated by equation (1).

$$C_{A_c} = - \frac{A_c}{qS} \left[\frac{1}{2} (P_1 + P_2) - P_b \right] \quad (1)$$

The base axial-force coefficient was calculated as indicated in equation (2)

$$C_{A_b} = - \left[(P_b - P_\infty)(A_c + A_b) \right] / q_\infty S \quad (2)$$

The model axial-force coefficients were calculated as indicated in equations (3) and (4).

$$C_A = \frac{A}{q_\infty S} - C_{A_c} \quad (3)$$

$$C_{A_F} = C_A - C_{A_b} \quad (4)$$

The angles of attack and sideslip were corrected for flow angularity, where applicable.

The moment reference center was located on the fuselage reference

line and 13.147 inches aft of the nose.

Data repeatability for the test was established by reviewing repeat points and is as follows:

$$C_L = +0.004$$

$$C_D = +0.002$$

$$C_m = +0.002$$

$$C_Y = +0.004$$

$$C_n = +0.001$$

$$C_l = +0.001$$

$$C_{A_E} = +0.004$$

$$C_{A_c} = +0.001$$

$$C_D = +0.04$$

$$C_{h_{e_i}} = +0.002$$

$$C_{h_{e_o}} = +0.002$$

$$C_{h_{e_r}} = +0.004$$

$$\alpha = +0.05^\circ$$

$$\beta = +0.05^\circ$$

$$M = +0.01$$

$$RN/L = +0.03$$

Reference Dimensions and Constants

<u>Symbol</u>	<u>Definition</u>	<u>Value</u>
A_B	Net fuselage base area normal to balance axis	
	Complete model, ft^2	0.064
	Body flap on, OMS pod off, ft^2	0.047
	Body flap off, OMS pod on, ft^2	0.067
	Base weighted areas are presented in table 4	
A_{SC}	Sting cavity cross-sectional area, ft^2	0.034
b_w	Span of wing, ft^2	14.050
\bar{c}_e	Mean aerodynamic chord of combined elevon (B_{18}) panels, in.	1.360
\bar{c}_r	Mean aerodynamic chord of rudder, in.	1.116
\bar{c}_w	Mean aerodynamic chord of wing, in	7.122
CG X	Vehicle center of gravity longitudinal location relative to model nose, in.	13.147
CG Z	Vehicle center of gravity vertical location, in.	FRL(Z=6.00)
CL BAL X	Location of balance center aft of fuselage nose, in.	13.63
CL BAL Z	Vertical location of balance center-line in.	W.L. 5.85
l_B	Reference length of fuselage, in.	19.92
S_e	Total planform area of two elevons, (E_{18}) ft^2	0.0462

S_r	Rudder area, ft^2	0.0222
S_w	Wing reference area, ft^2	0.605

REFERENCES

1. Braslow, Albert L.; and Know, Eugene C.: Simplified Method for Determination of Critical Height of Distributed Roughness Particles for Boundary-Layer Transition at Mach Numbers from 0 to 5. NACA TN 4363, 1958.

TABLE 1

[illegible]

DATE 4/18 - 5/4/73

24

TABLE 3. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B10

GENERAL DESCRIPTION : DOUBLE DELTA WING FUSELAGE PER LINES VL70-000093, WITH
57.0 IN. RADIUS NCSE
2A CONFIGURATION LT WT ORBITER
SCALE MODEL = .015 (18-0)

DRAWING NUMBER : VL72-000061 VL70-C00093

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - in.	<u>1328.3</u>	<u>19.924</u>
Max. Width - in. (@ $X_0 = 1528.3$)	<u>265.0</u>	<u>3.975</u>
Max. Depth - in. (@ $X_0 = 1480.52$)	<u>248.0</u>	<u>3.720</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area - ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>456.40</u>	<u>0.1027</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₅

GENERAL DESCRIPTION : 2A CONFIGURATION PER LINES VL70-000092.

SCALE MODEL = 0.015

DRAWING NUMBER : VL70-000092

DIMENSIONS :	FULL SCALE	MODEL SCALE
Sta. Fwd. Bulkhead, in.	<u>391.00</u>	<u>5.865</u>
Sta. T. E, in.	<u>560.0</u>	<u>8.400</u>
Canopy Intersects Body ML, in.	<u>391.00</u>	<u>5.865</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

No info on view angles

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : MANIPULATOR HOUSING - D₇

GENERAL DESCRIPTION : 2A CONFIGURATION, LIGHT WT ORBITER PER LINES

SCALE MODEL = 0.015

DRAWING NUMBER : VL70-000093

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - IN.	<u>881.00</u>	<u>13.215</u>
Max. Width - IN.	<u>51.00</u>	<u>0.765</u>
Max. Depth - IN.	<u>23.00</u>	<u>0.345</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

Ⓔ Fuselage, BP = 0.0 INFS
 WP = 500.0 INFS
 X₀ 426.0 to 1307.0 INFS

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: WING - W₈₇ NEW LIGHTWEIGHT ORBITERGENERAL DESCRIPTION: Orbiter Configuration per Lines VL70-000093NOTE: (Dihedral angle is defined at the lower surface of the wing at the 75.33%
element line projected into a plane perpendicular to the FRL.)

SCALE MODEL = 0.015

TEST NO. _____

DWG. NO. VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea(Theo.) ~ Ft²

Planform

2690.00

0.605

Wetted

Span(Theo) In.

936.68

14.05

Aspect Ratio

2.265

2.265

Rate of Taper

1.177

1.177

Taper Ratio

0.200

0.200

Dihedral Angle, degrees

3.500

3.500

Incidence Angle, degrees

3.000

3.000

Aerodynamic Twist, degrees

+3.000

+3.000

Toe-In Angle

Cant Angle

Sweep Back Angles, degrees

Leading Edge

45.000

45.000

Trailing Edge

-10.24

-10.24

0.25 Element Line

35.209

35.209

Chords: ~ in.

Root (Theo) B.P.O.O.

689.24

10.339

Tip, (Theo) B.P.

137.85

2.068

MAC

471.81

7.122

Fus. Sta. of .25 MAC

1136.89

17.053

W.P. of .25 MAC

299.20

4.488

B.L. of .25 MAC

182.13

2.732

Airfoil Section

Root

Tip

EXPOSED DATAArea(Theo) ~ Ft²

1752.29

0.394

Span, (Theo) ~ In. BP108 to 468.341

720.68

10.810

Aspect Ratio

2.058

2.058

Taper Ratio

0.2451

0.2451

Chords

Root BP108

562.40

8.436

Tip 1.00b

137.85

2.068

MAC 2

393.03

5.895

Fus. Sta. of .25 MAC

1185.31

17.779

W.P. of .25 MAC

300.20

4.503

B.L. of .25 MAC

143.76

2.156

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: WING - W87 NEW LIGHTWEIGHT ORBITER (Continued.)

Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2} = 0.425$	<u>0.10</u>	<u>0.10</u>
Tip $\frac{b}{2} = 1.00$	<u>0.12</u>	<u>0.12</u>
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area ~ Ft ²	<u>120.33</u>	<u>0.0271</u>
Leading Edge Intersects Fus M. L. @ Sta	<u>560.0</u>	<u>8.400</u>
Leading Edge Intersects Wing @ Sta	<u>1035.0</u>	<u>15.525</u>

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON E-18GENERAL DESCRIPTION: 2A CONFIGURATION PER W-87, LINES VL70-000093DATA FOR (1) OF (2) SIDESMODEL SCALE = 0.015DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - ft ²	<u>205.517</u>	<u>0.046</u>
Span (equivalent) - in.	<u>353.34</u>	<u>5.300</u>
Inb'd equivalent chord (B.P. 115.0 in.), in.	<u>114.78</u>	<u>1.722</u>
Outb'd equivalent chord (B.P. 468.3 in.), in.	<u>55.00</u>	<u>0.825</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.02</u>	<u>-10.02</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) - ft ³	<u>1548.07</u>	<u>0.005</u>
Product of Area Moment		

NOTE: The elevon panel consists of an inboard and outboard segment.
The split line dividing the segments is at B.P. 281 inches
full scale (B.P. 4.215 inches Model Scale).

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V5 (Lightweight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline vertical tail, double wedge airfoil with rounded leading edge.

SCALE MODEL = 0.015

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo) - Ft ²	413.25	.0929
Planform		
Span (Theo) - In.	315.72	4.735
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords: ~ in.		4.0275
Root (Theo) WP	268.50	1.627
Tip, (Theo) WP	108.47	2.997
MAC	199.81	21.952
Fus. Sta. of .25 MAC	1463.50	
W.P. of .25 MAC	635.522	9.533
B.L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius	2.00	2.000
Void Area ~ ft ²	13.17	0.0030
Blanketed Area	12.67	0.0028

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER R₅

GENERAL DESCRIPTION: 2A CONFIGURATION PER LINES VL70-000095

SCALE MODEL = 0.015

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ ft ²	<u>106.38</u>	<u>0.024</u>
Span (equivalent) ~ in.	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord ~ in.	<u>91.585</u>	<u>1.374</u>
Outb'd equivalent chord ~ in.	<u>50.833</u>	<u>0.762</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)- ft ³	<u>526.125</u>	<u>0.0018</u>
Product of Area and Mean Chord		

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : OMS PODS - M₃
 GENERAL DESCRIPTION : 2A LIGHT WT CONFIGURATION PER MC120074,
PER LINES VL70-000094.

 SCALE MODEL = 0.015

 DRAWING NUMBER : VL70-000094

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~ in.	<u>346.0</u>	<u>5.190</u>
Max. Width ~ in. @ $X_0 = 1450.0$	<u>108.0</u>	<u>1.620</u>
Max. Depth ~ in. @ $X_0 = 1500.0$	<u>113.8</u>	<u>1.707</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

\bar{E} OF OMS POD

$$Z_0 = 463.9 \text{ INCHES FS; WP } 400.0 + 63.9 = 463.9 \text{ INFS}$$

$$6.000 + .959 = 6.959 \text{ INMS}$$

$$Y_0 = 80.0 \text{ INFS, } 1.20 \text{ INMS}$$

$$\text{FROM FUSELAGE STATION } 1214.0 \text{ to } 1560 \text{ INFS} = 346.0 \text{ INFS}$$

$$18.210 \text{ to } 23.40 \text{ INMS} = 5.190 \text{ INMS}$$

TABLE 3. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT:	<u>N₈ - OMS Nozzle</u>		
GENERAL DESCRIPTION:	<u>Basic OMS Nozzle of the 2A Orbiter Configuration</u>		
	<u>(VL70-000089"B")</u>		
SCALE MODEL =	<u>0.015</u>		
DRAWING NO.	<u>VL70-008306</u>		
DIMENSIONS	FULL-SCALE	MODEL SCALE	
MACH NO <u>N/A</u>			
DIAMETER DEX - IN	<u>50.00</u>	<u>0.750</u>	
DIAMETER DT - IN	<u>N/A</u>		
DIAMETER DIN - IN	<u>28.00</u>	<u>0.420</u>	
ON ~ DEGREES	<u>N/A</u>		
AREA - ft ²			
MAX CROSS-SECTIONAL	<u>13.635</u>	<u>.003067</u>	
OMS GIMBAL ORIGIN ±8.0 deg.	<u>X_o</u>	<u>Y_o</u>	<u>Z_o</u>
RIGHT NOZZLE - IN	<u>1518</u>	<u>88.0</u>	<u>492</u>
LEFT NOZZLE - IN	<u>1518</u>	<u>-88.0</u>	<u>492</u>
NULL POSITION	<u>PITCH</u>	<u>YAW</u>	
RIGHT NOZZLE - DEG.	<u>15°49'</u>	<u>12°17'</u>	
LEFT NOZZLE - DEG.	<u>15°49'</u>	<u>-12°17'</u>	
NOTE: Intersection of nozzle exit plane and nozzle centerline - in.	<u>X_o</u>	<u>1570.75</u>	<u>23.561</u>
	<u>Y_o</u>	<u>±99.25</u>	<u>±1.489</u>
	<u>Z_o</u>	<u>507.25</u>	<u>7.609</u>

TABLE 3. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT : FL₄ BODY FLAP

GENERAL DESCRIPTION : 2A CONFIGURATION PER LINES VL70-000094

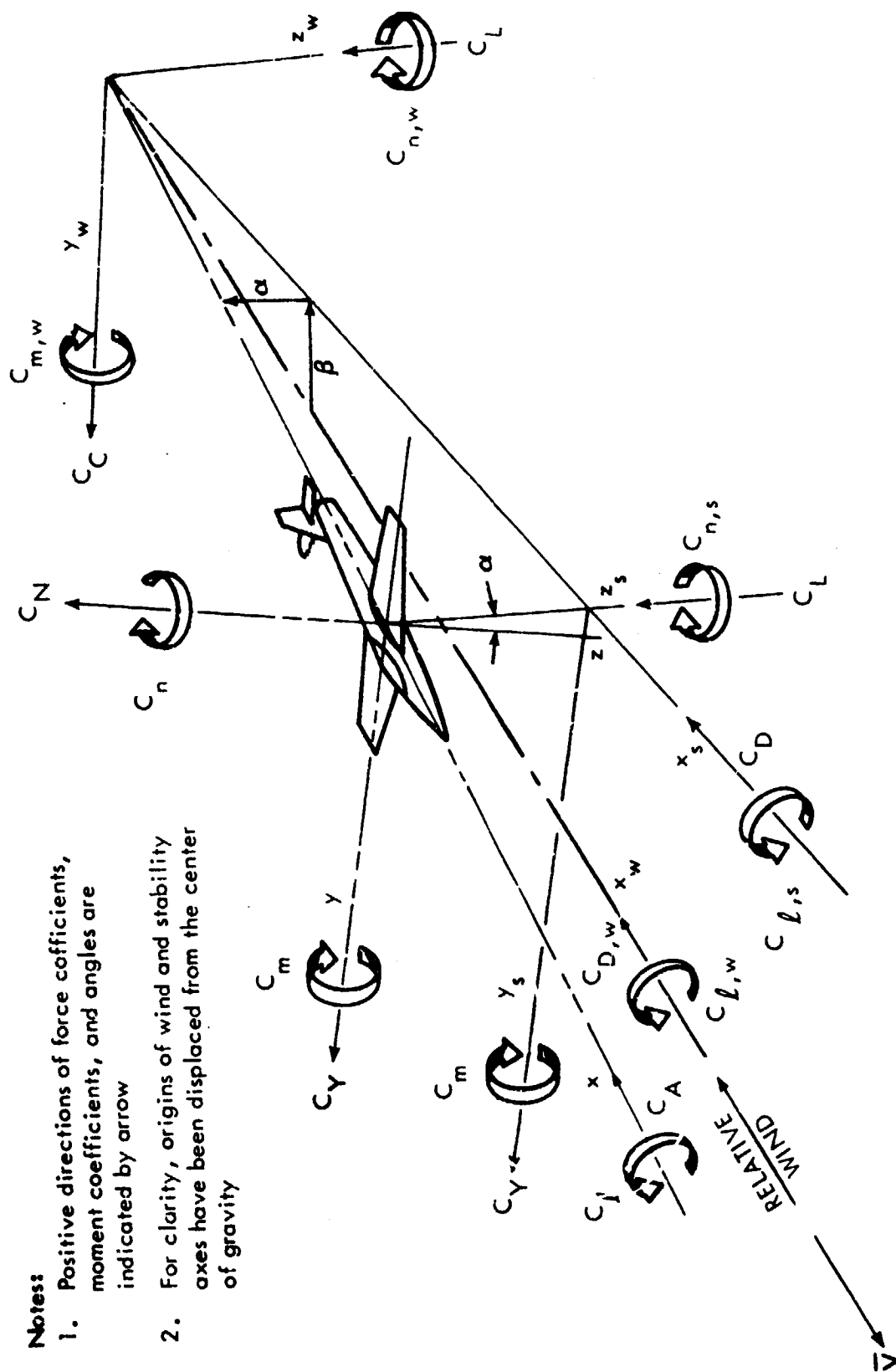
SCALE MODEL = 0.015

DRAWING NUMBER : VL70-000094 "A"

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~ in.	<u>84.70</u>	<u>1.2705</u>
Max. Width ~ in.	<u>265.00</u>	<u>3.975</u>
Max. Depth ~ in.	<u>21.00</u>	<u>0.315</u>
Fineness Ratio	<u> </u>	<u> </u>
Area , ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>0.0321</u>
Wetted	<u> </u>	<u> </u>
Base	<u>38.646</u>	<u>0.0087</u>

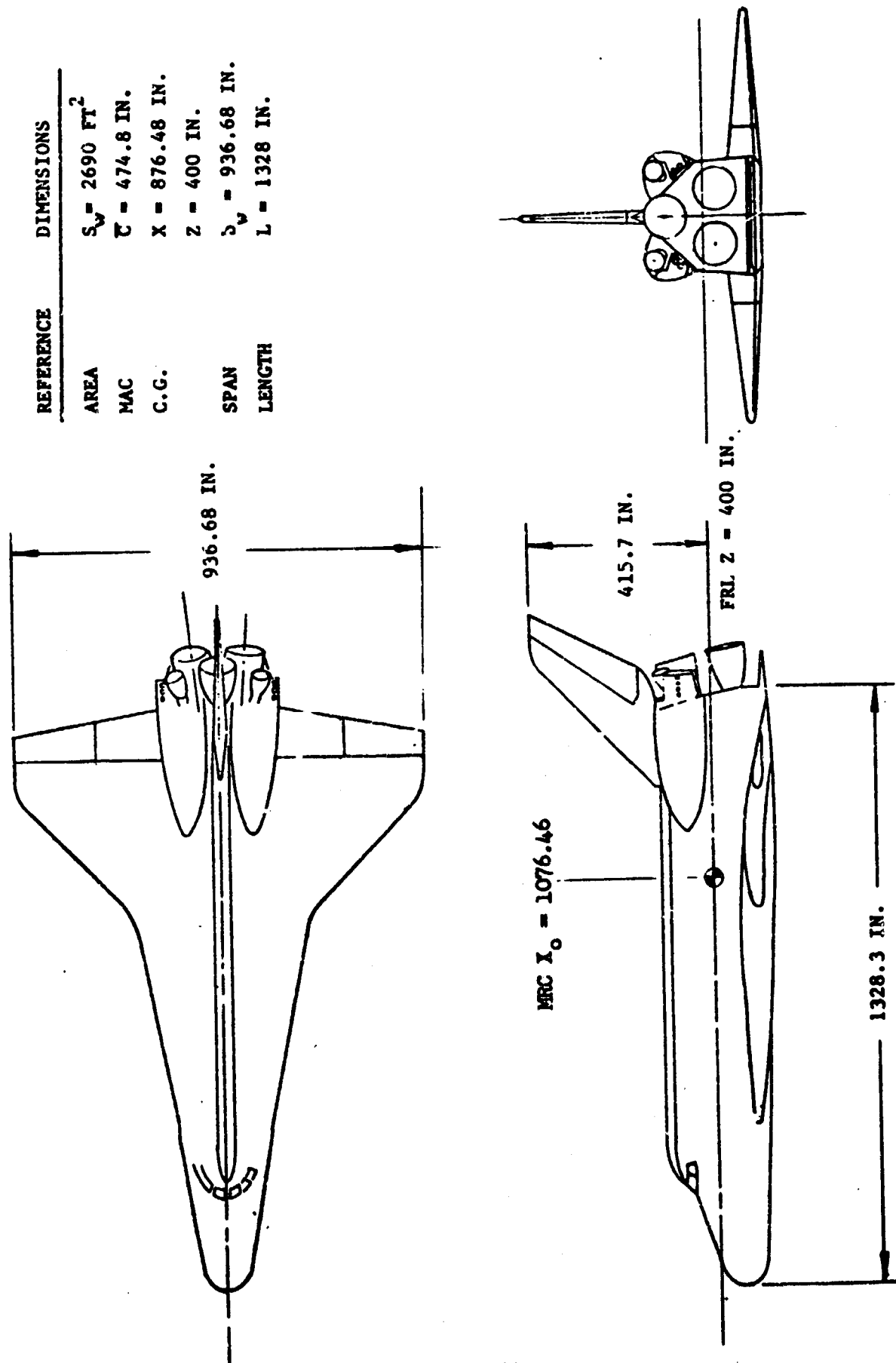
TABLE 4. - FUSELAGE BASE PRESSURE WEIGHTING AREAS

Fuselage Base Pressure Tap	Weighting Areas (A_i) Ft^2		
	Complete Model	Body Flap Off	OMS Pod Off
P_{B1}	0.00450	0.00450	0.00450
P_{B2}	0.01100	0.01100	0
P_{B3}	0.00988	0.00988	0
P_{B4}	0.00998	0.00998	0.01530
P_{B5}	0.01409	0.01409	0.01409
P_{B6}	0.00845	0.01390	0.00845
P_{B7}	0.00122	0.00295	0.00122
P_{B8}	0.00080	0	0.00080
P_{B9}	0.00306	0	0.00306
$\Sigma A_i =$	0.0630	0.0662	0.0474



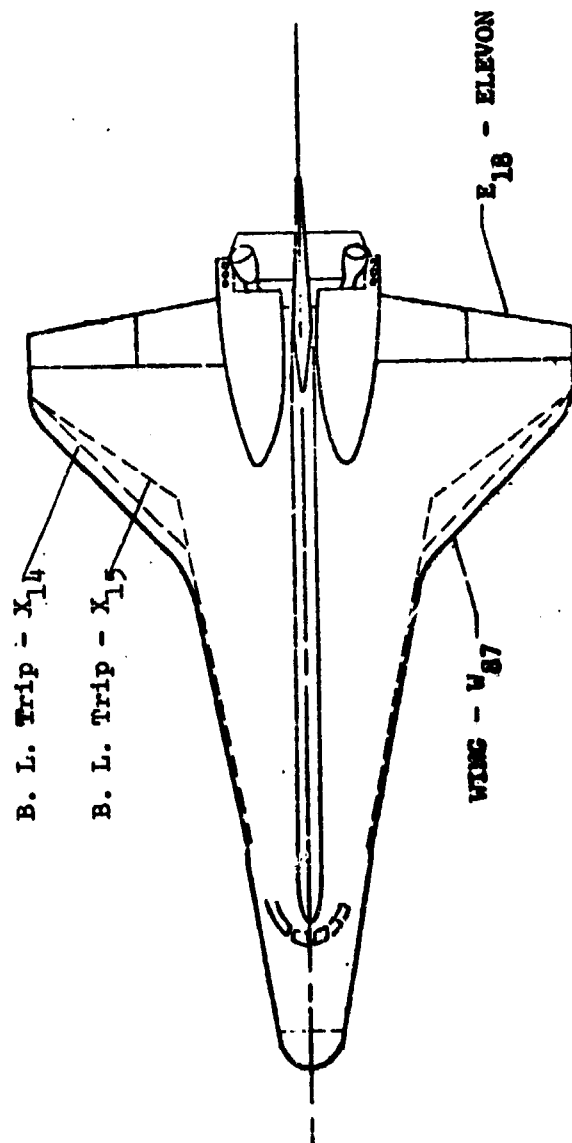
- Notes:**
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
 2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis systems.

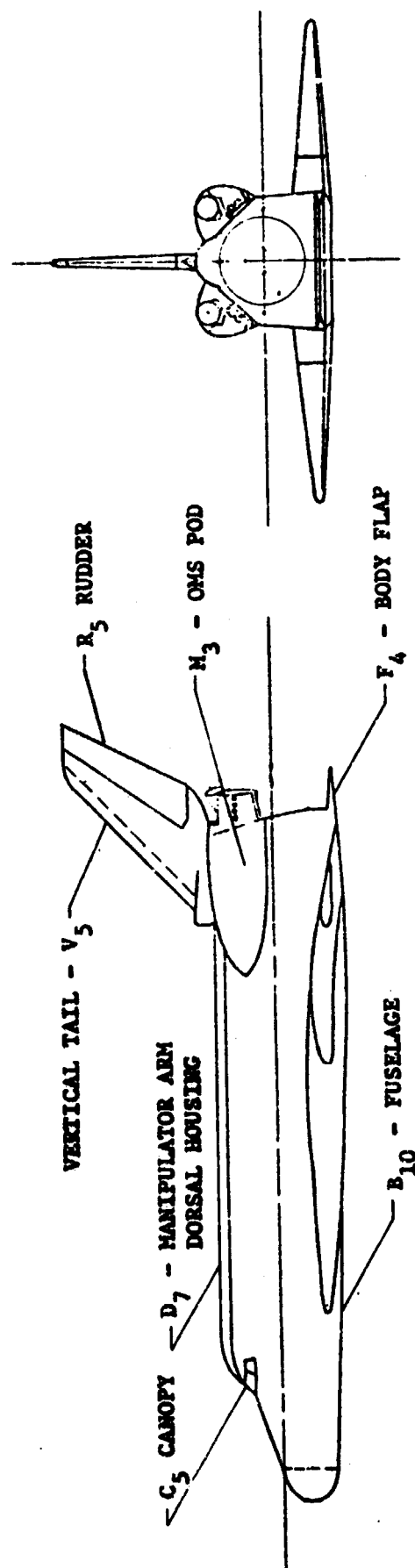


(a) SSV Orbiter 2A Configuration Baseline

Figure 2. - Model drawings.

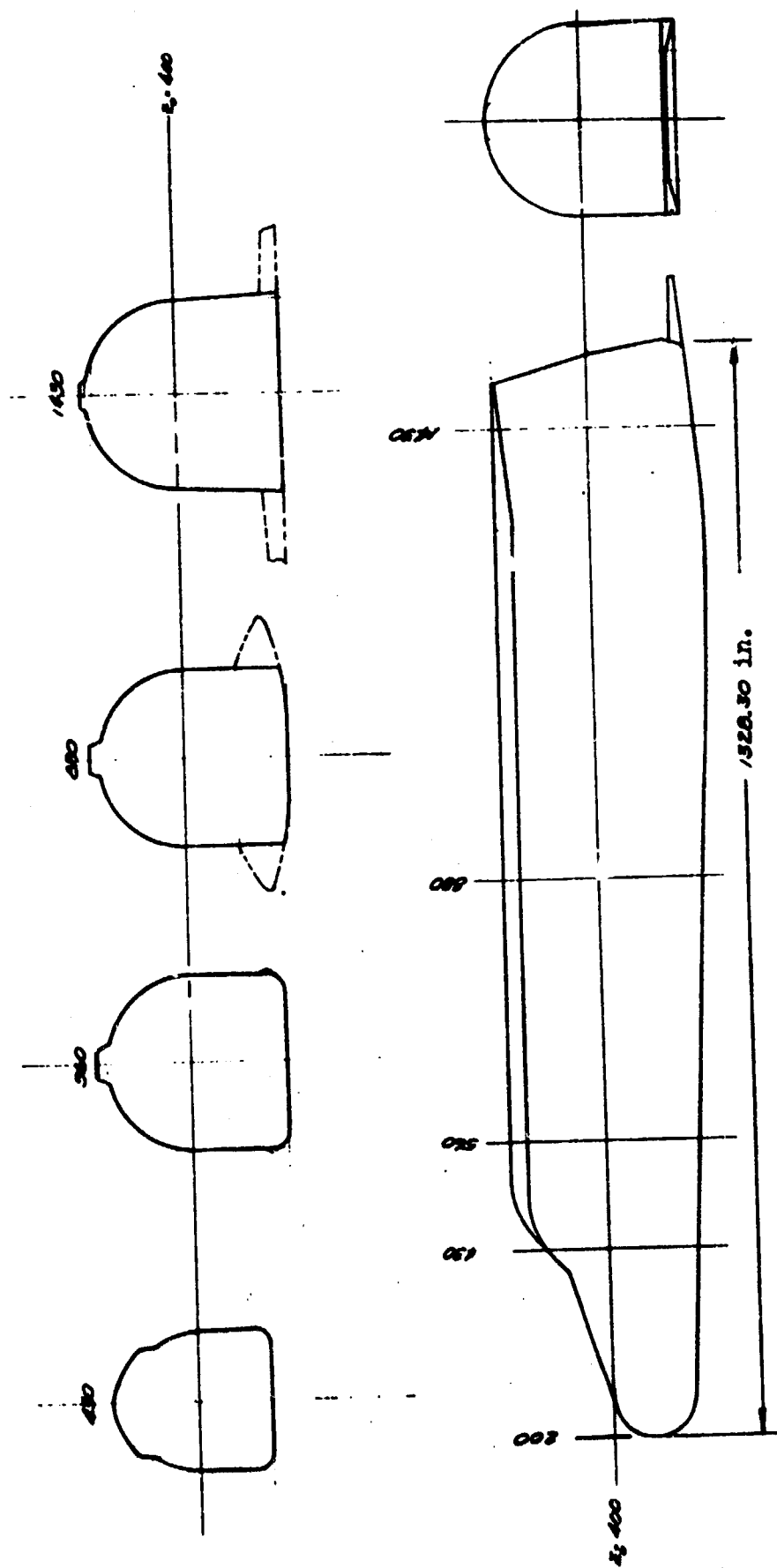


40

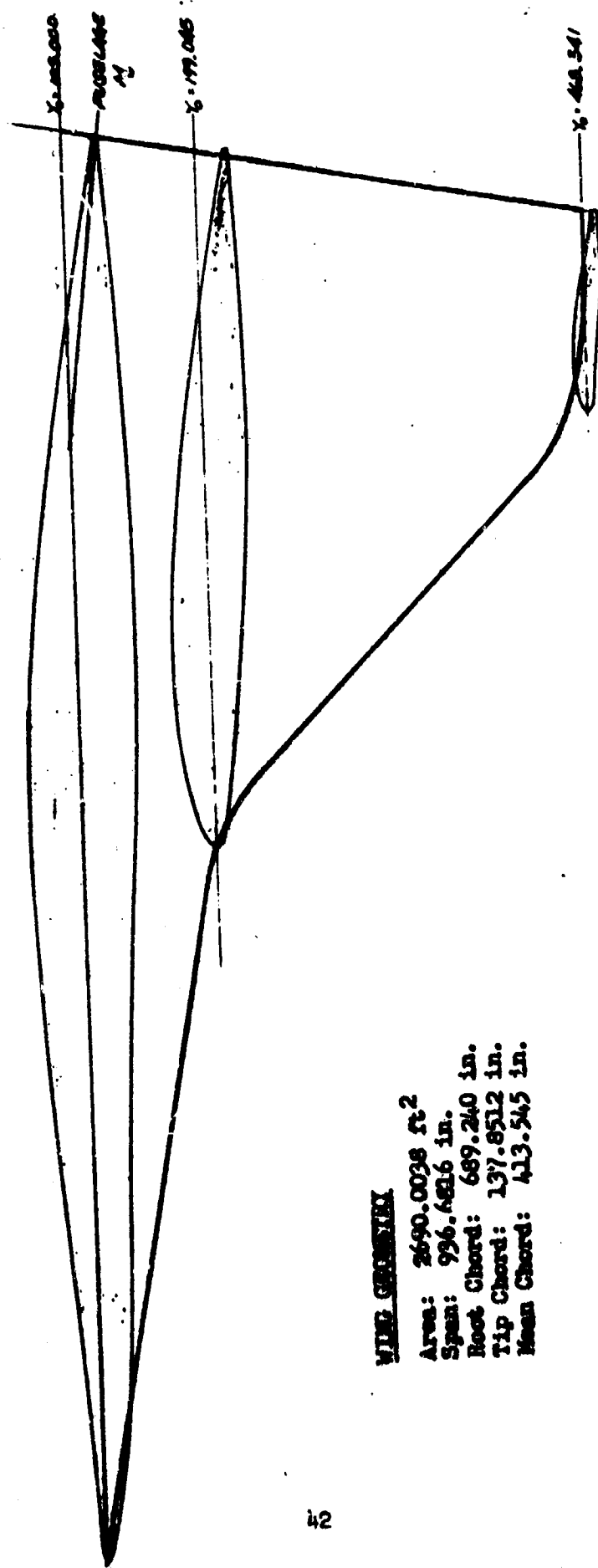


(b) SSV Orbiter 2A Model Nomenclature

Figure 2. - Continued.



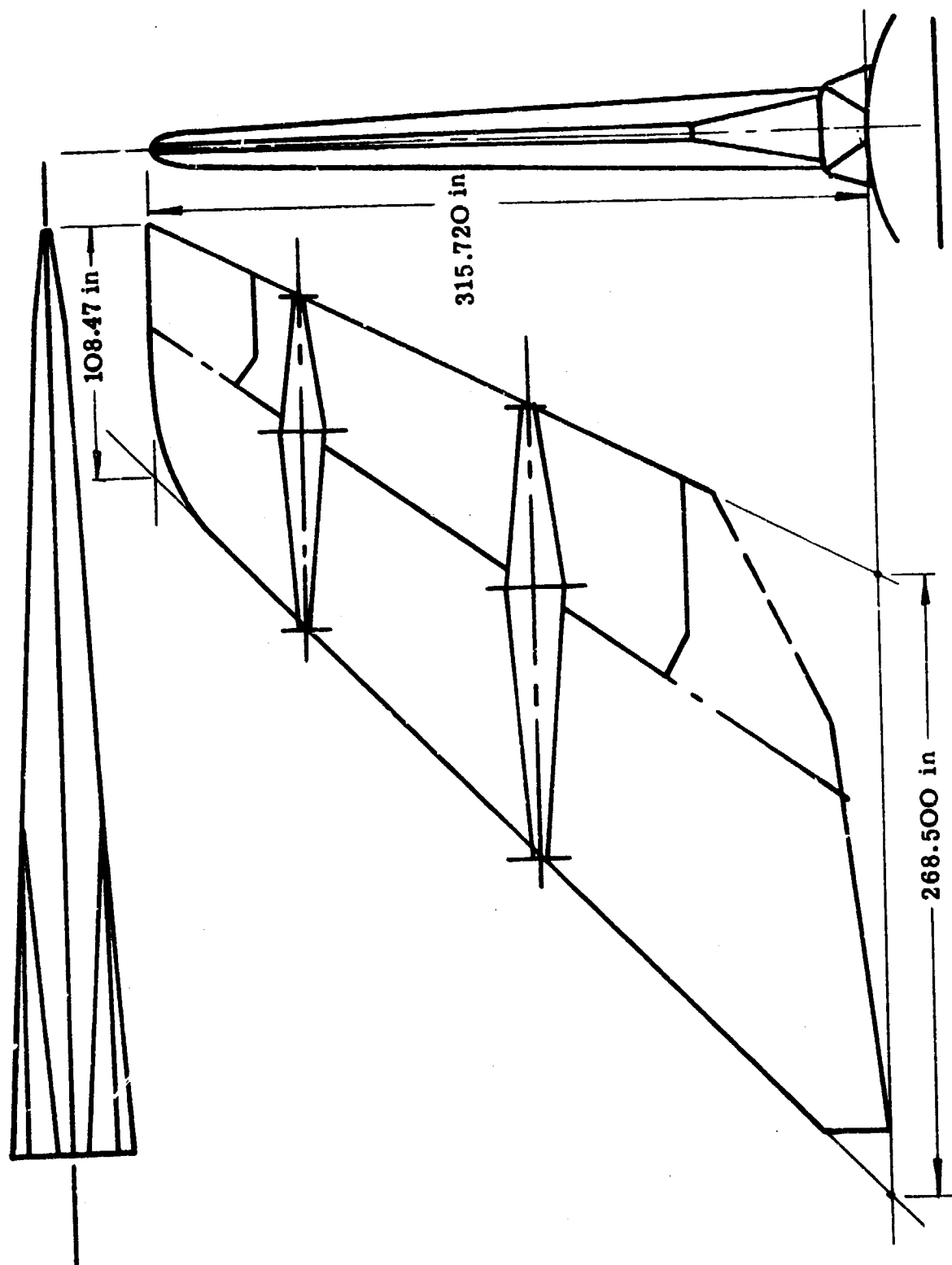
(c) B₁₀, F₄ - Basic 2A Fuselage With Body Flap
Figure 2. - Continued.



WING GEOMETRY

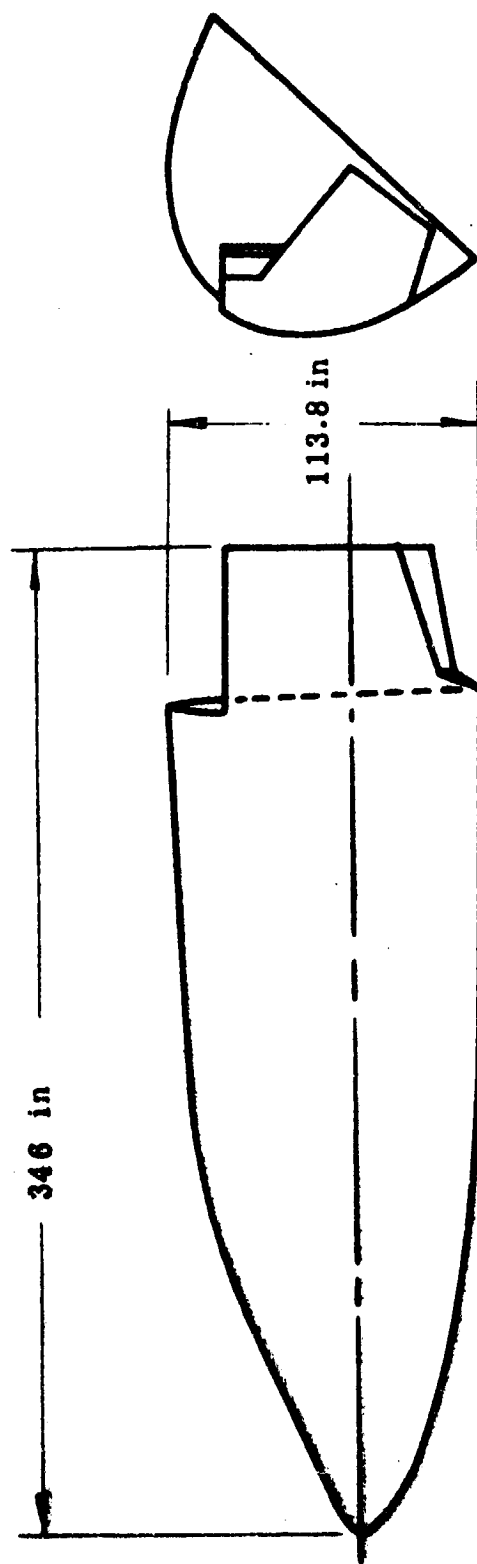
Area: 2690.0038 ft²
 Span: 996.6216 in.
 Root Chord: 689.240 in.
 Tip Chord: 137.8512 in.
 Mean Chord: 413.545 in.

(a) W87 - Basic 2A Wing Configuration
 Figure 2. - Continued.

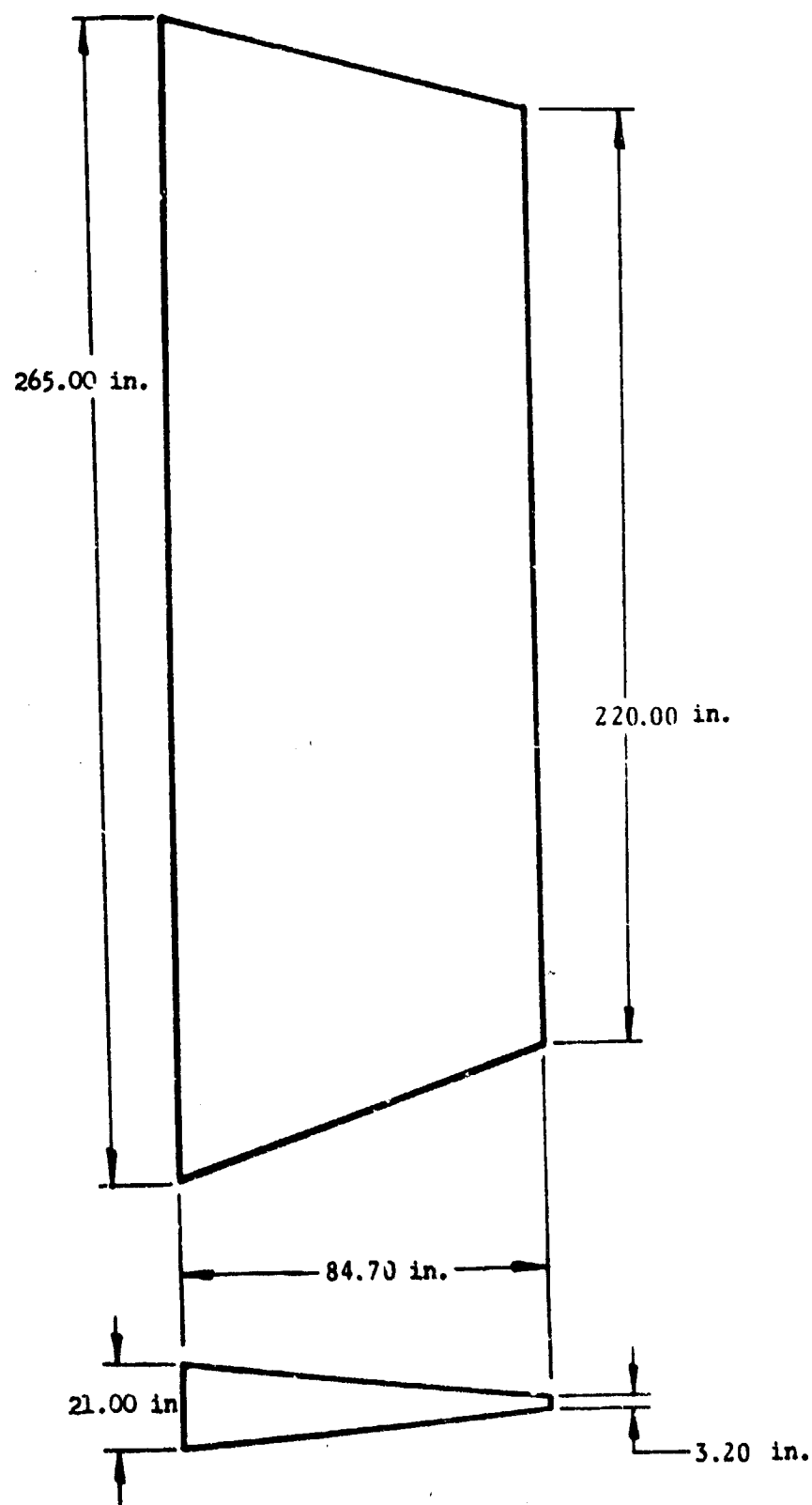


(e) V_5 - Vertical Tail

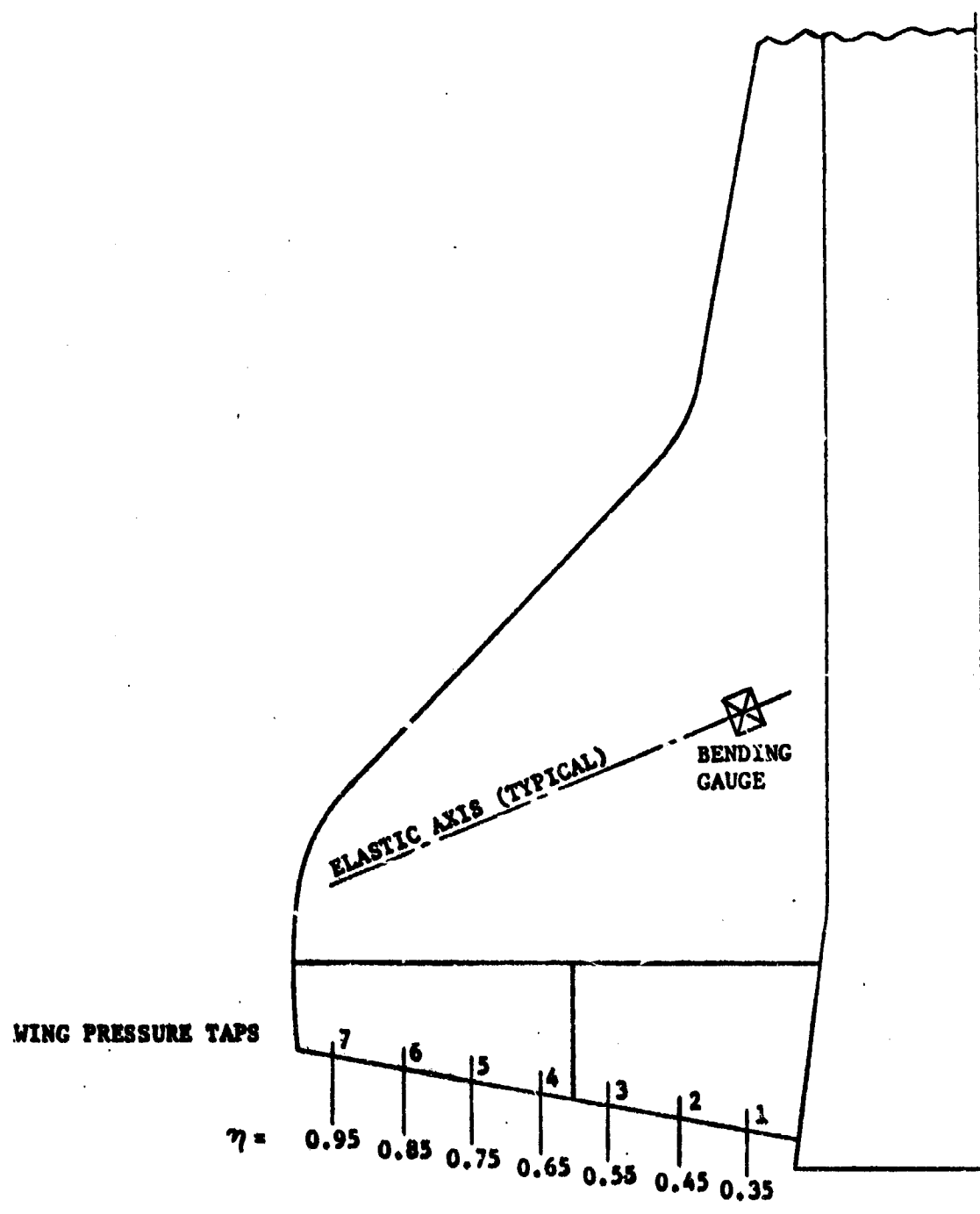
Figure 2. - Continued.



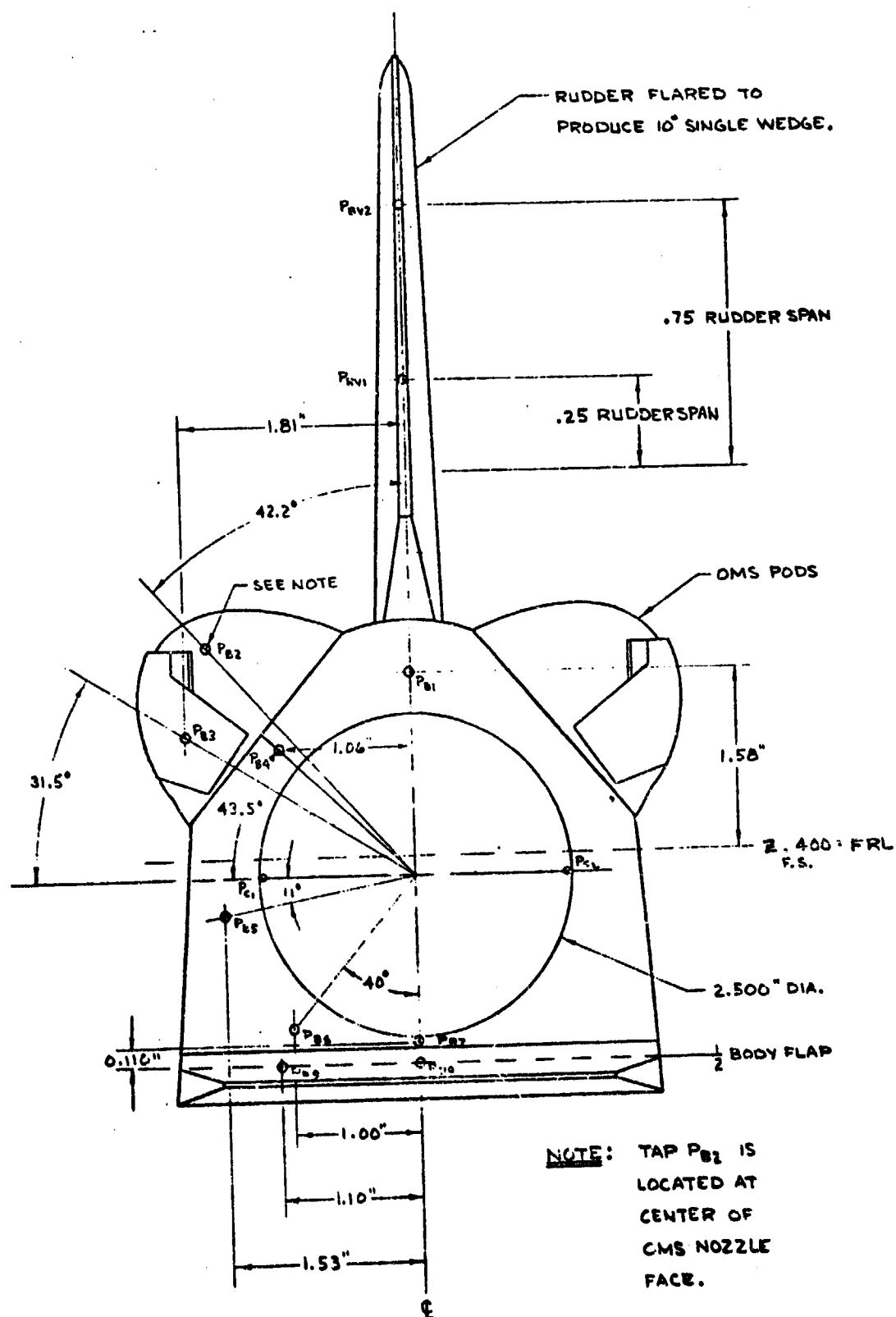
(f) M_3 - QMS Pod
Figure 2. - Continued.



(g) F_4 - Body Flap
Figure 2. - Concluded.



(a) Buffet Onset Instrumentation
Figure 3. - Instrumentation sketches.



(b) 0.015-Scale SSV Orbiter Base Instrumentation

Figure 3. - Concluded.

DATA FIGURES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVYN	SPOBRK	RJDDER	REFERENCE INFORMATION
(RST001)	AVES 65-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RST002)	DATA NOT AVAILABLE	-14.200	.000			LREF 474.6000 IN.
(RST003)	AVES 65-706 CM43 B10 CS D7 M3 F4	-14.200	.000			BREF 936.6800 IN.
(RST004)						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

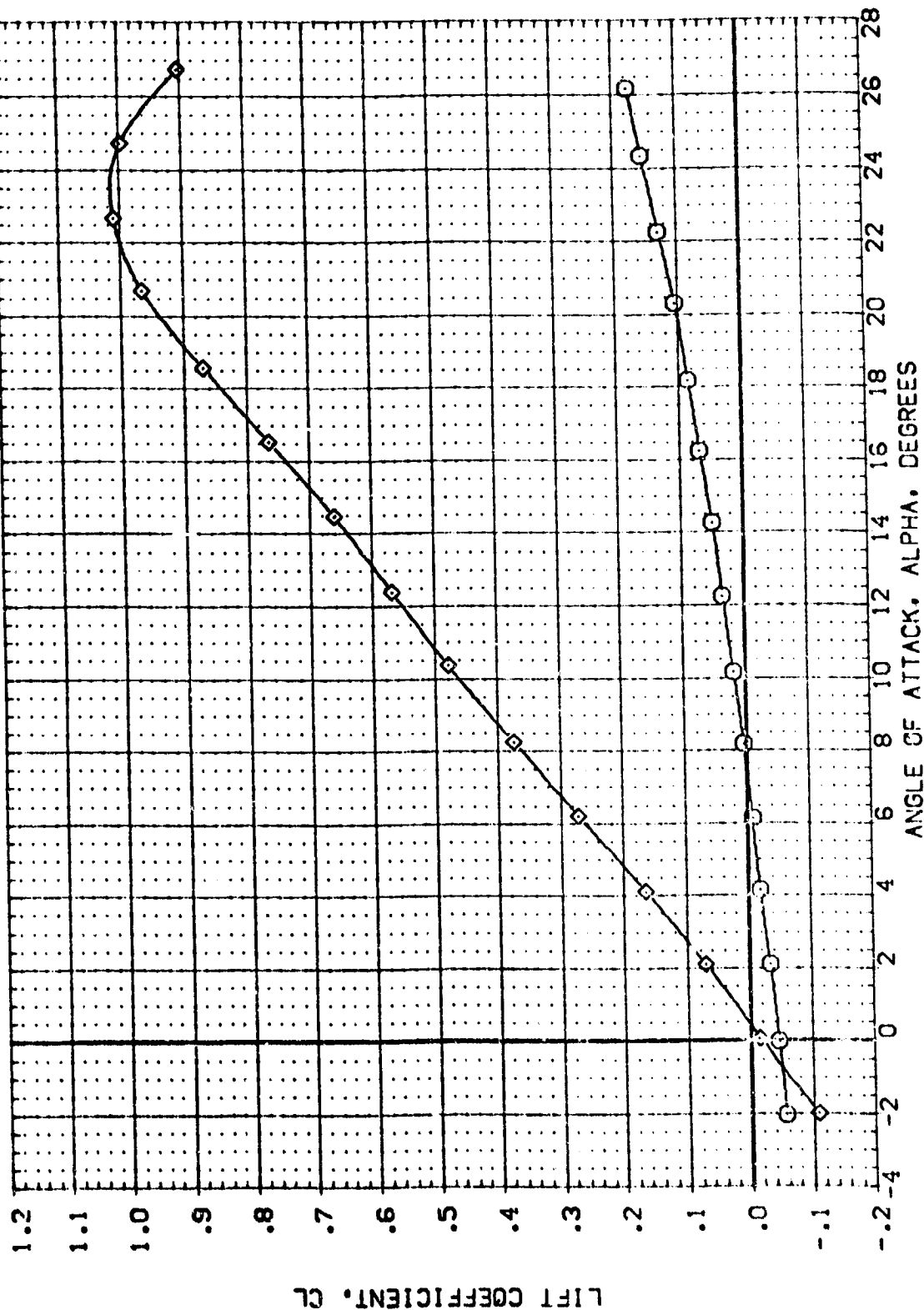


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(MACH = .60)

DATA SET SYMBOL: (RBT001) (RBT002) (RBT004)

CONFIGURATION DESCRIPTION: AYES 66-706 CA43 B10 CS D7 M3 F4 V87E18
 AYES 66-706 CA43 B10 CS D7 M3 F4 V87E18
 AYES 66-706 CA43 B10 CS D7 M3 F4 V87E18

BOOFUP: -14.200
 ELEVON: .000
 SPOBRK: 54.900
 RUDDER: .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.
 IREF 474.8000
 BREF 936.5800
 XMRP 1076.1800
 YMRP .0000
 ZMRP 400.0000
 SCALE .0150

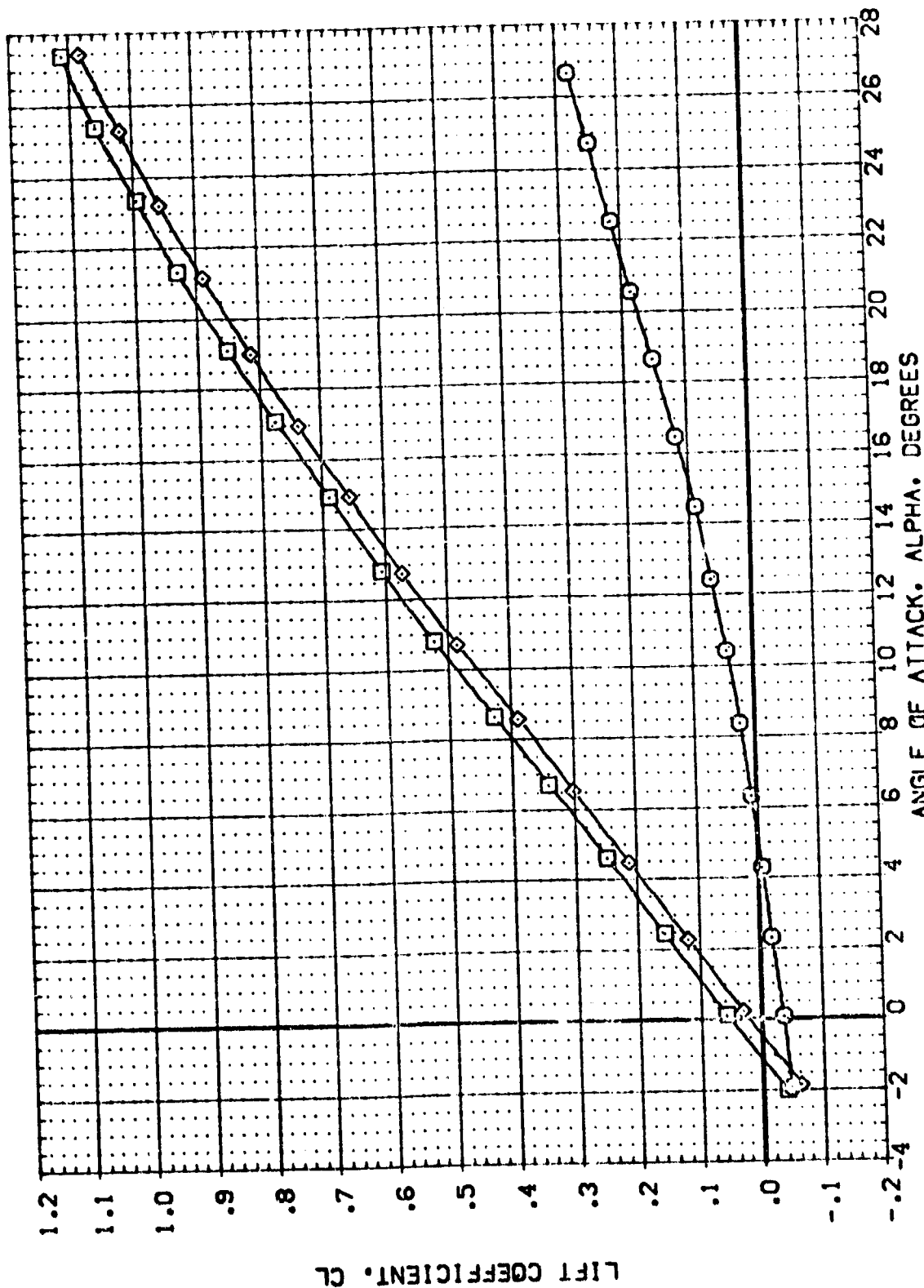


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET 5: BCL
 (R87001)
 (R87002)
 (R87004)

CONFIGURATION DESCRIPTION
 AYES 66-706 CA13 B10 CS D7 M3 F4 V87E18
 AYES 66-706 CA13 B10 CS D7 M3 F4 V87E18
 AYES 66-706 CA13 B10 CS D7 M3 F4 V87E18

BOOFUP
 -14.200
 -14.200
 -14.200

ELEVON
 .000
 .000
 .000

SPOBRK
 54.900

RUDDER
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.F.T.
 LREF 474.8000
 BREF 936.6800
 XMRP 1076.4800
 YMRP .0000
 ZMRP 400.0000
 SCALE .0150

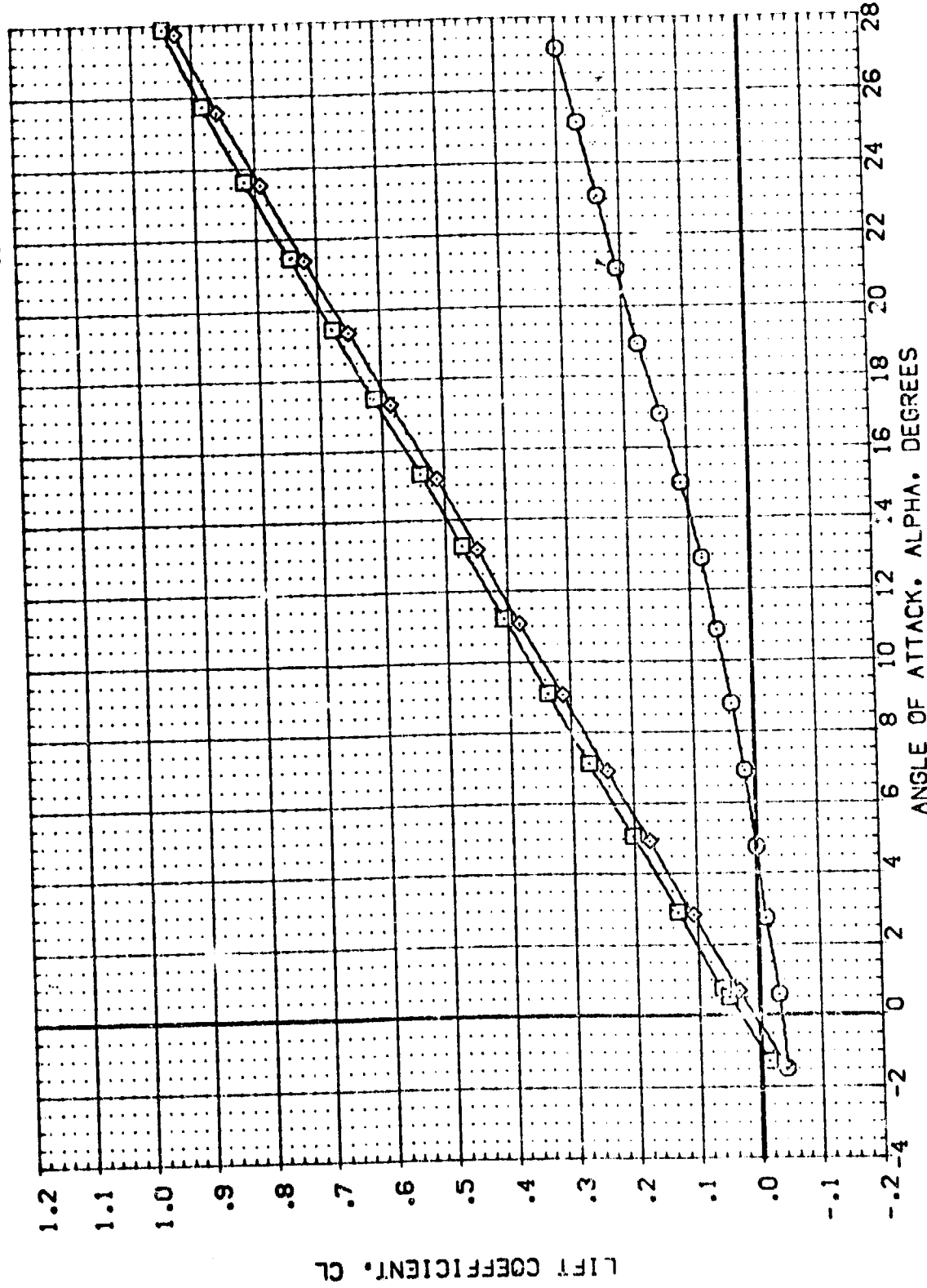


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPORRK		RUDDER		REFERENCE INFORMATION	
[RSTDC1]	Q	AVES 66-706 QM43 B10 CS D7 P3 F1	DATA NOT AVAILABLE	-14.200	.000	.000	54.900	.000	SREF	2630.0000	90.0000	90.0000	
[RSTDC2]	◇	AVES 66-706 QM43 B10 CS D7 P3 F4 V47E18 V545		-14.200	.000	.000			LREF	474.8000	IN.	IN.	
[RSTDC4]									BREF	936.6800	IN.	IN.	
									XMRP	1076.4800	IN.	IN.	
									YMRP	0000	IN.	IN.	
									ZMRP	400.0000	IN.	IN.	
									SCALE	.0150	SCALE	SCALE	

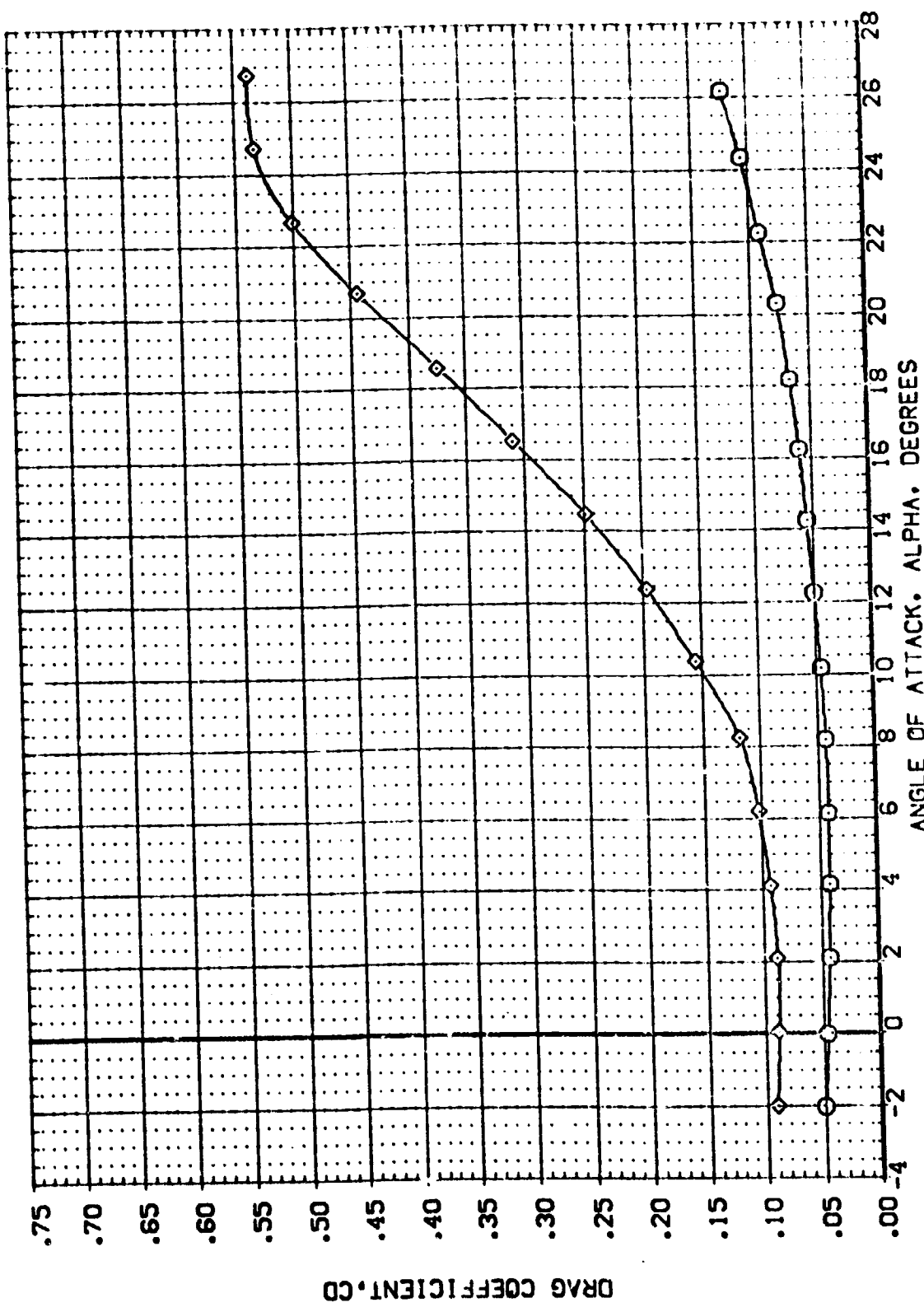


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(Q) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT001)	AVES 65-70S CA43 B10 CS D7 P3 F4	-14.200	.000			SREF 2690.0000 SQ.FT.
(RBT002)	AVES 65-70S CA43 B10 CS D7 P3 F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RBT003)	AVES 65-70S CA43 B10 CS D7 P3 F4	-14.200	.000			BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

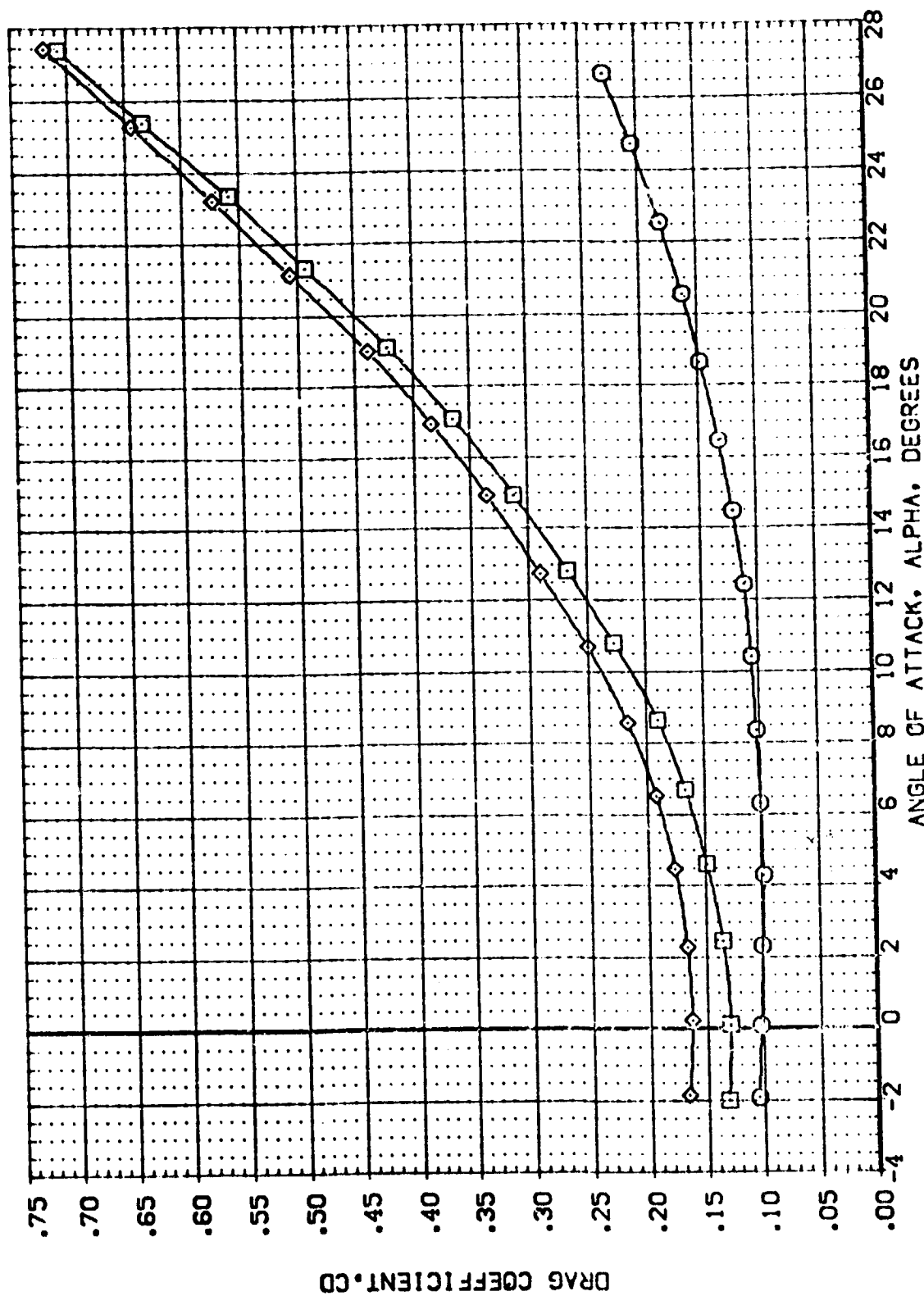


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(RST001)	ANES 66-705	DA43 B10	CS D7 M3 F4	0.00	54.900	.000	SREF	2690.0000	SC.FT.		
(RST002)	ANES 66-705	DA43 B10	CS D7 M3 F4	0.00	54.900	.000	LREF	474.6000	SC.FT.		
(RST003)	ANES 66-705	DA43 B10	CS D7 M3 F4	0.00	54.900	.000	BREF	936.6000	SC.FT.		
(RST004)	ANES 66-705	DA43 B10	CS D7 M3 F4	0.00	54.900	.000	XREF	1076.4000	SC.FT.		
							YREF	100.0000	SC.FT.		
							ZREF	100.0000	SC.FT.		
							SCALE	.0150	SCALE		

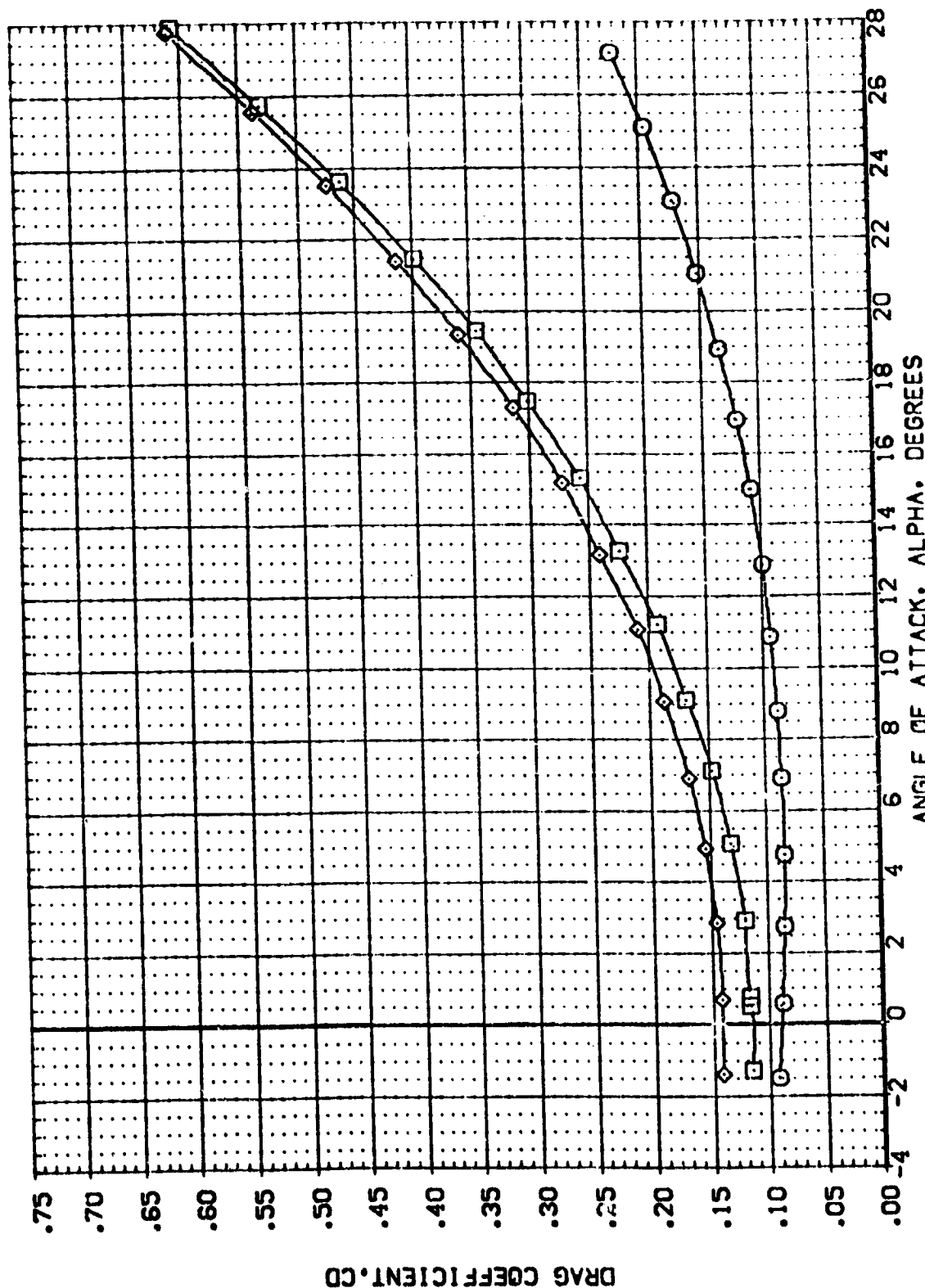


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL: [RBT001] [RBT002] [RBT004]

CONFIGURATION DESCRIPTION: AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 V5F5
 AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 V5F5
 AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 V5F5

BOOFLP: -14.200
 ELEVON: .000
 SPDRK: 54.900
 RLODR: .000

REFERENCE INFORMATION: SREF 2890.0000 SQ. FT.
 LREF 474.8000
 BREF 936.6800
 YREF 1076.4800
 ZREF .0000
 YPRP 400.0000
 ZPRP .0150
 SCALE

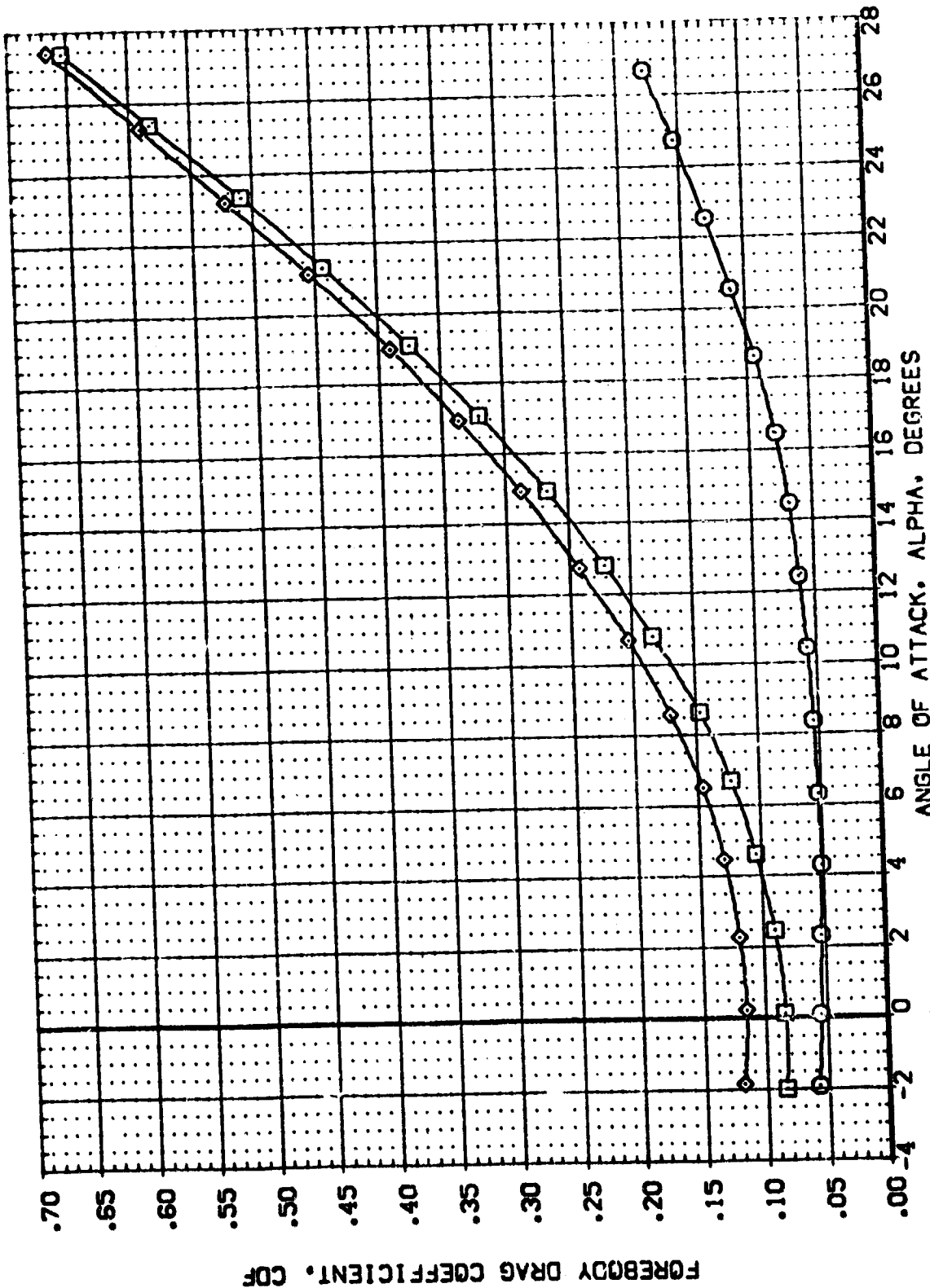


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPORCK		RUDDER		REFERENCE INFORMATION						
{RSTCC1}	Q	AVES 66-706	0A43	810	CS	07	M3	F4	-14.200	.000	54.900	.000	SREF	2690.0000	50.000	IN.
{RSTCC2}		AVES 66-706	0A43	810	CS	07	M3	F4	-14.200	.000	54.900	.000	LREF	474.8000	9.36	IN.
{RSTCC4}		AVES 66-706	0A43	810	CS	07	M3	F4	-14.200	.000	54.900	.000	BREF	1076.4800	1076.4800	IN.
													XREF	400.0000	400.0000	IN.
													YREF	400.0000	400.0000	IN.
													ZREF	400.0000	400.0000	IN.
													SCALE	.0150		SCALE

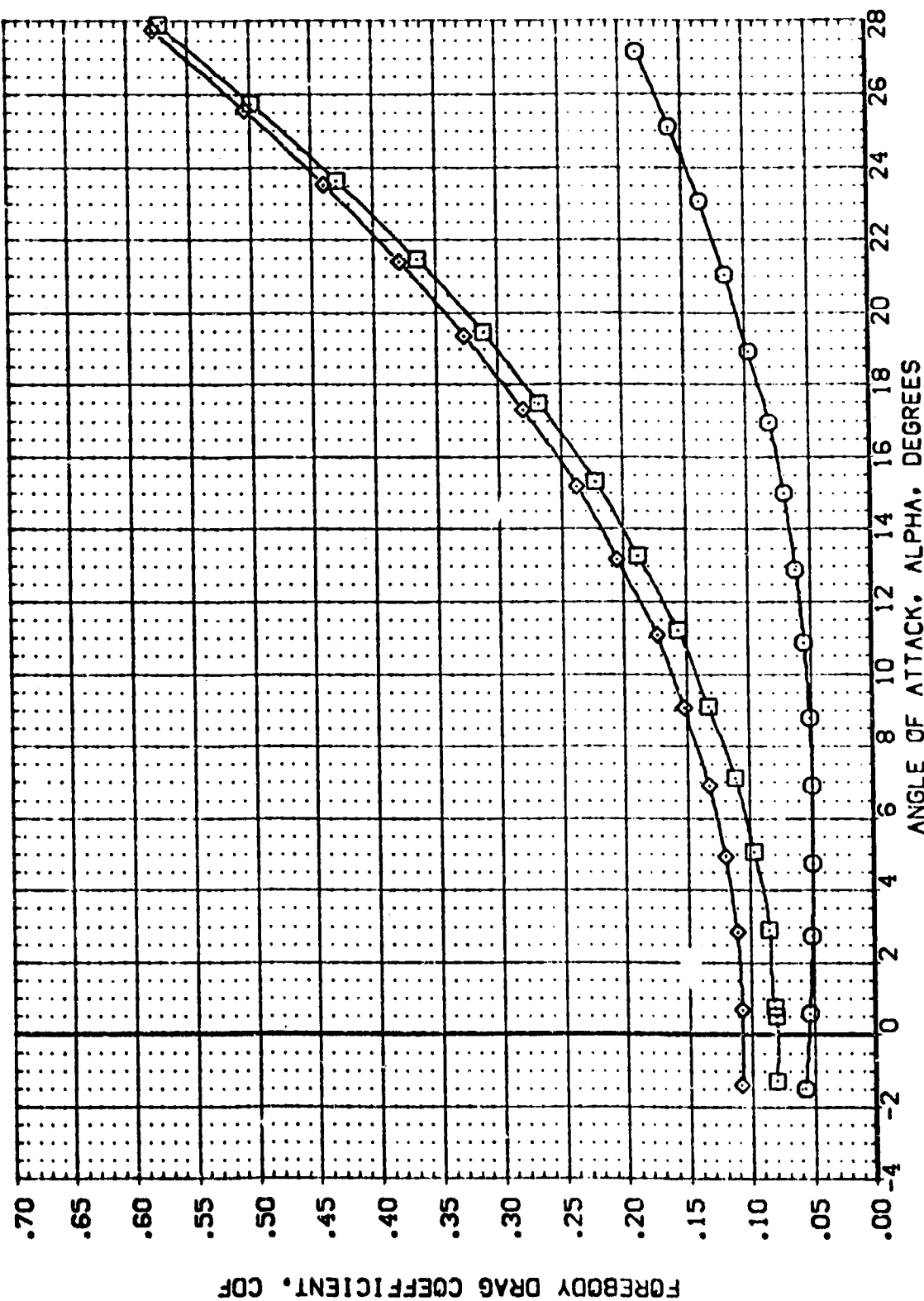


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL: [RBT001] [RBT002] [ZB'CA]

CONFIGURATION DESCRIPTION: AVES 66-706 0M3 B10 CS 07 M3 F4 V87E18 V5M5
 DATA NOT AVAILABLE

BOOFLP ELEVON SPOBRK RUDDER

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XPRP 1076.4800 IN.
 YPRP 0.0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

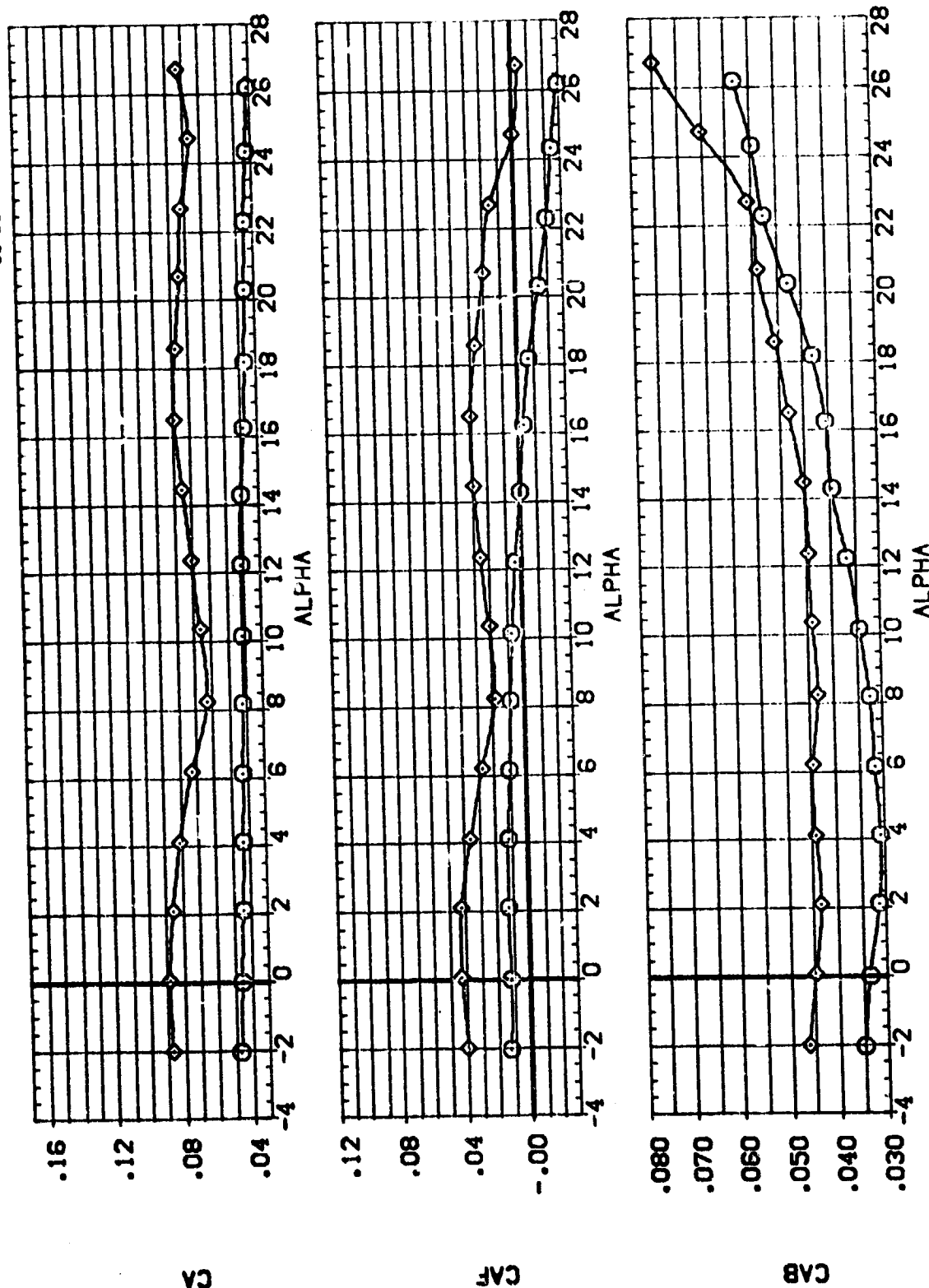


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(B)CC1)	AVES 66-706 0A43 B10 CS D7 M3 F4	-14.200	.000			SREF 2690.0000 SQ.FT.
(B)CC2)	AVES 66-706 0A43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(B)CC4)	AVES 66-706 0A43 B10 CS D7 M3 F4	-14.200	.000			SREF 936.6800 IN.
						X-REF 1076.4800 IN.
						Y-REF 400.0000 IN.
						Z-REF 400.0000 IN.
						SCALE .0150

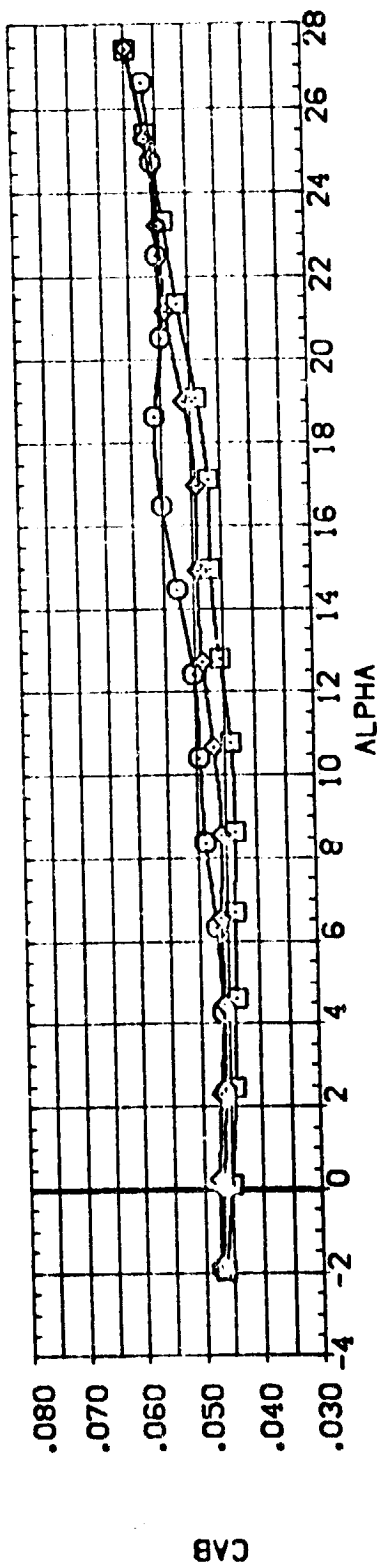
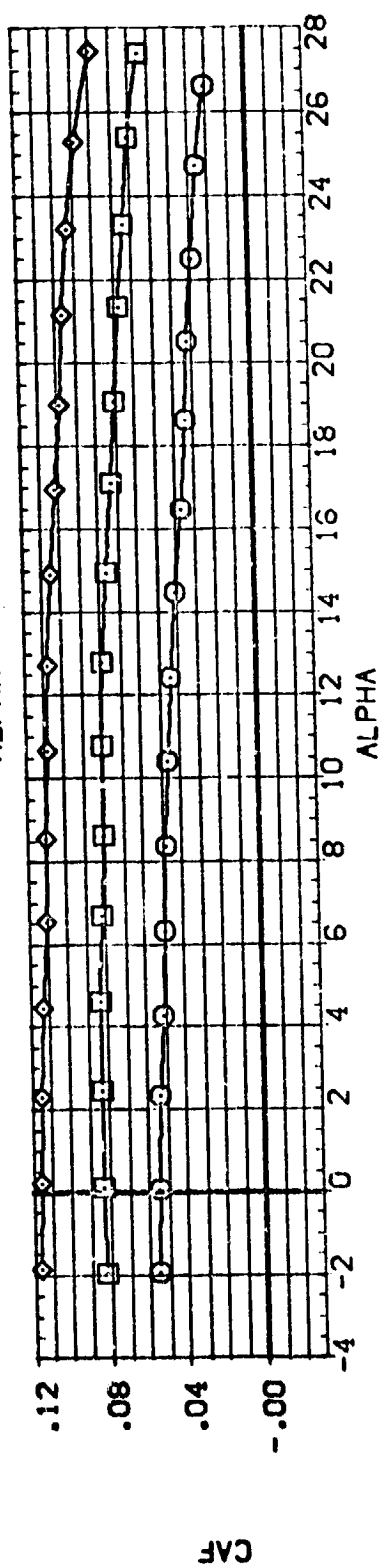
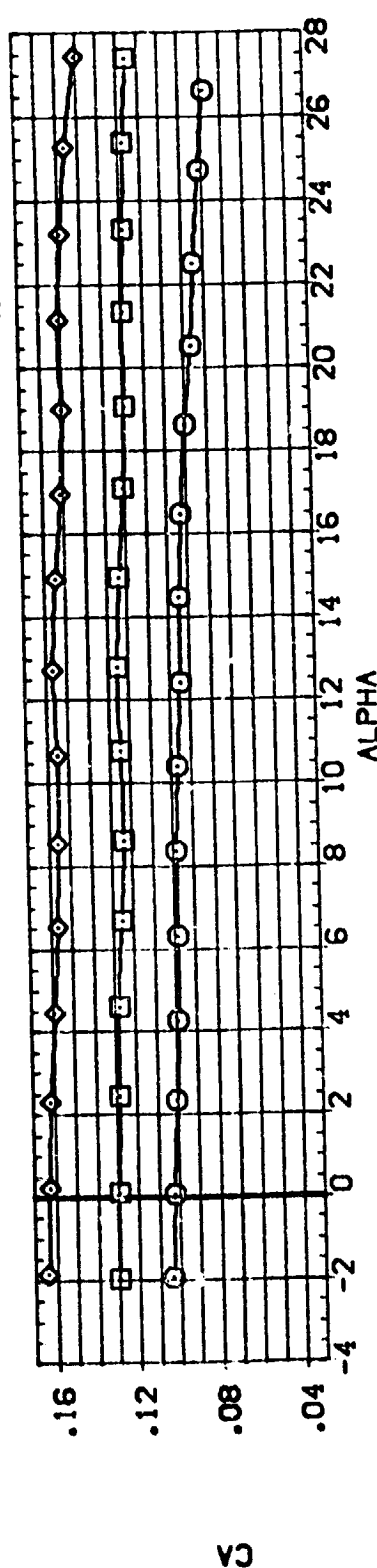


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(R8-001)	APES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			SREF	2690.0000
(R8-002)	APES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			LREF	474.8000
(R8-003)	APES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			BREF	936.6800
(R8-004)	APES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			XREF	1076.4800
						YREF	400.0000
						ZREF	400.0000
						SCALE	.0150

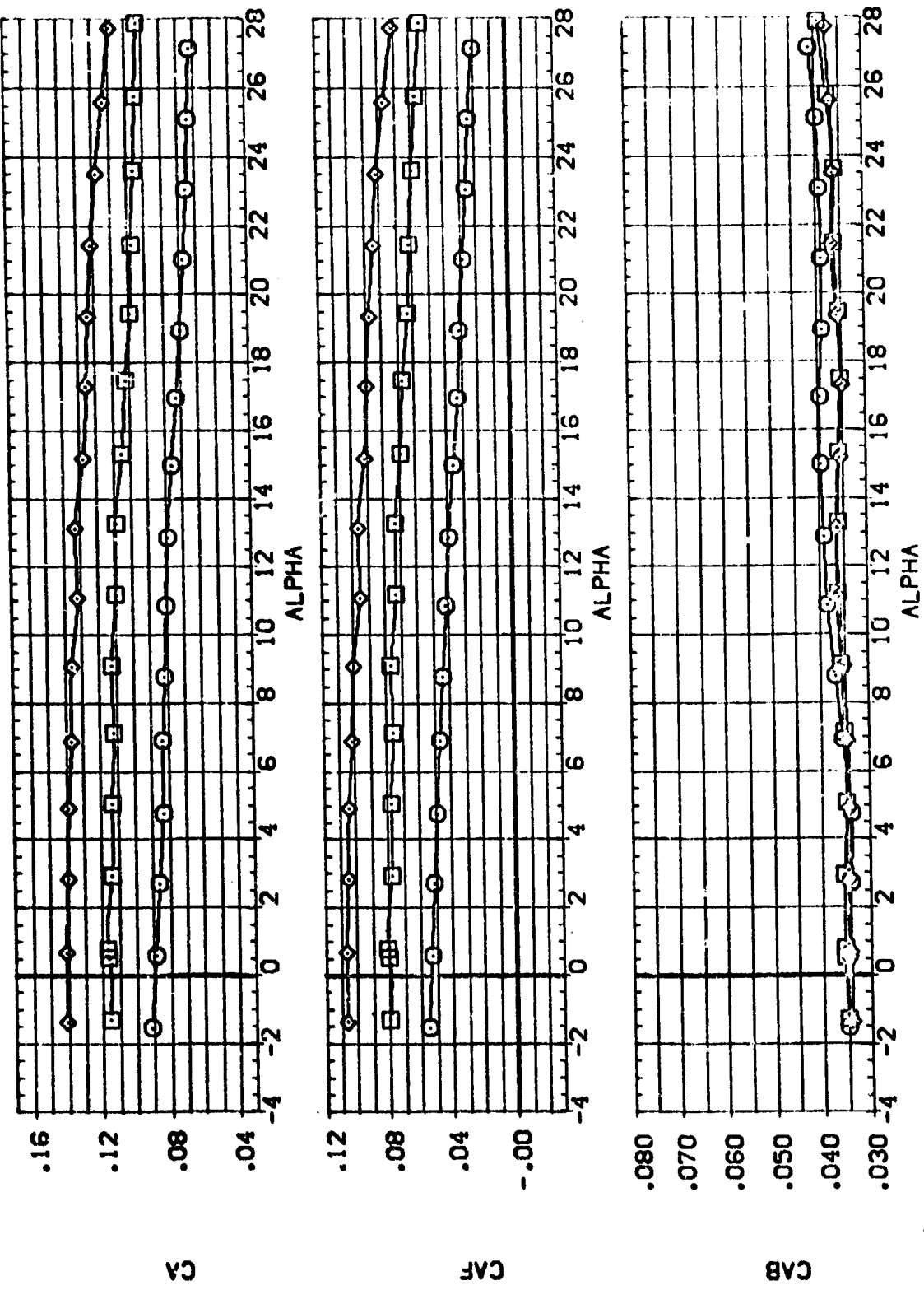


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION	
(RBT001)	AVES 66-706 BA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(RBT002)	DATA NOT AVAILABLE	-14.200	.000			LREF	474.8000 IN.
(ZBT004)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200				BREF	936.6800 IN.
						XVREF	1076.4800 IN.
						YVREF	.0000 IN.
						ZVREF	400.0000 IN.
						SCALE	.0150 SCALE

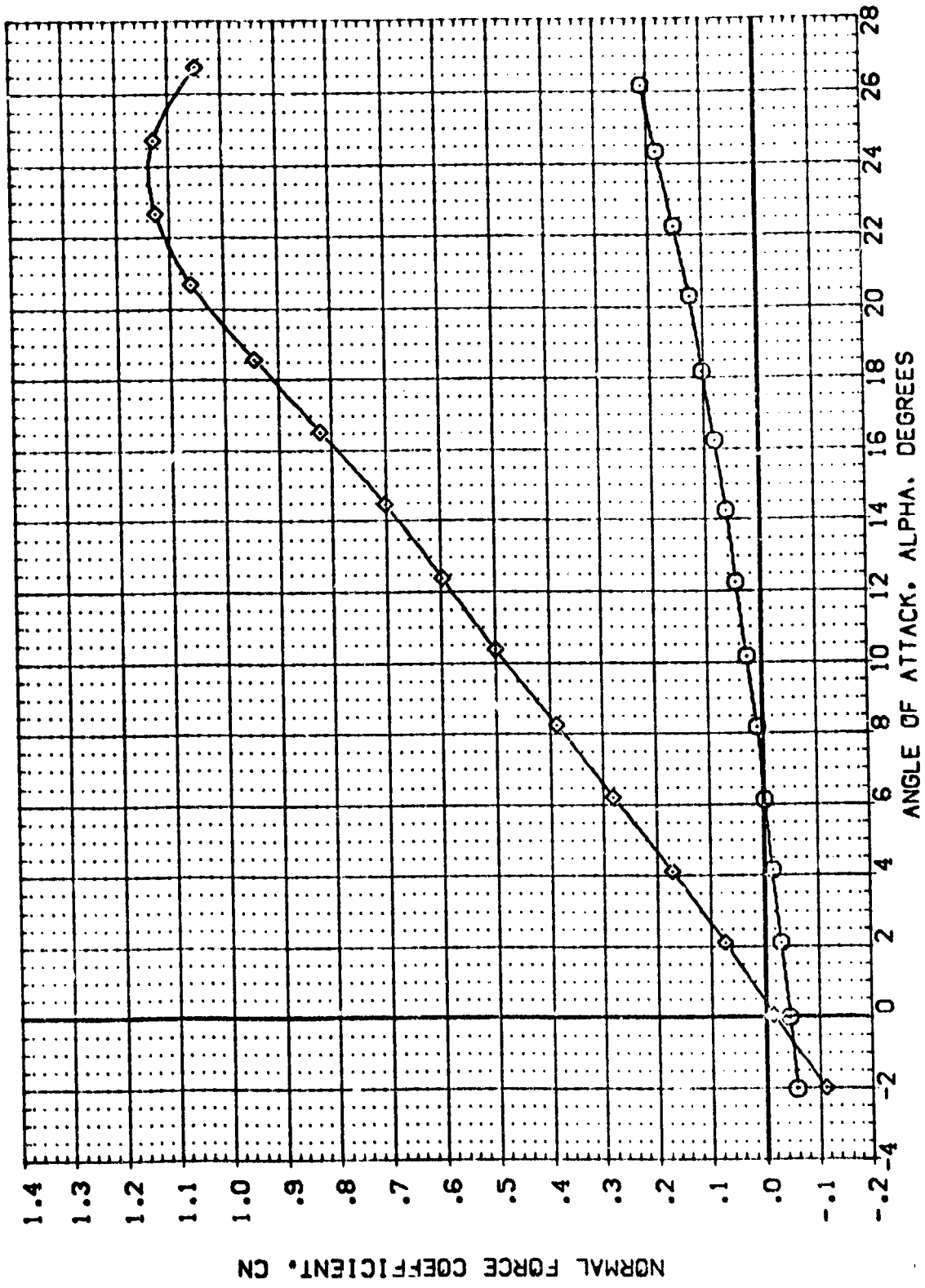


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT001)	AVES 66-706 0A43 B10 CS 07 F4	-14.200	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RBT002)	AVES 66-706 0A43 B10 CS 07 F4	-14.200	.000	.000	.000	LREF 474.8000
(ZBT004)	AVES 66-706 0A43 B10 CS 07 F4	-14.200	.000	.000	.000	BREF 936.8600
						XREF 1576.4600
						YREF 0.0000
						ZREF 0.0000
						SCALE 400.0000
						SCALE .0150

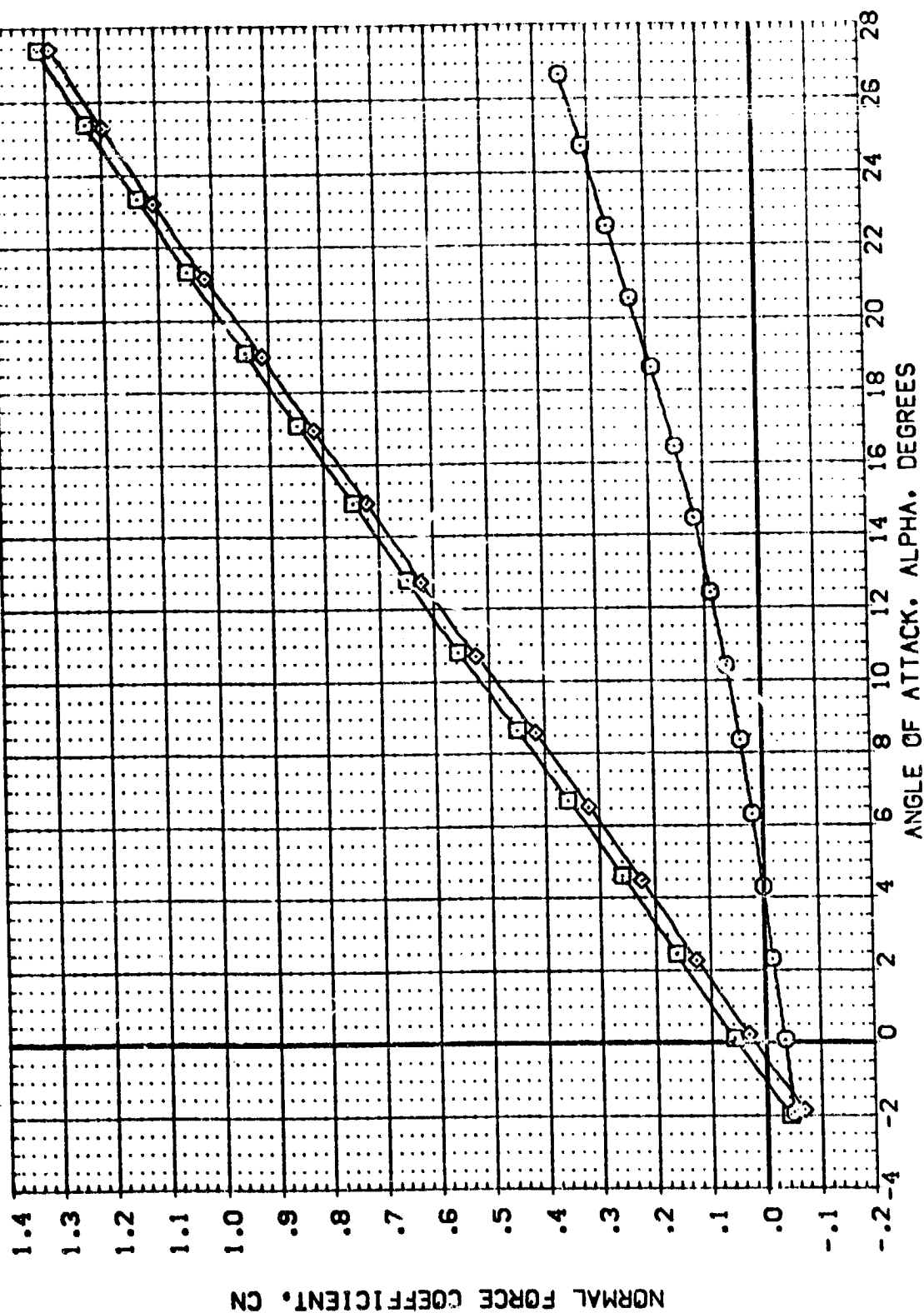


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT001)	AMES 66-705 CA43 B10 C5 D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT002)	AMES 66-705 CA43 B10 C5 D7 M3 F4	-14.200	.000	54.900	.000	LREF 474.8000
(ZBT004)	AMES 66-705 CA43 B10 C5 D7 M3 F4	-14.200	.000	54.900	.000	XREF 936.6800
						YREF 1076.4800
						ZREF .0000
						YPRD 400.0000
						ZPRD .0150
						SCALE

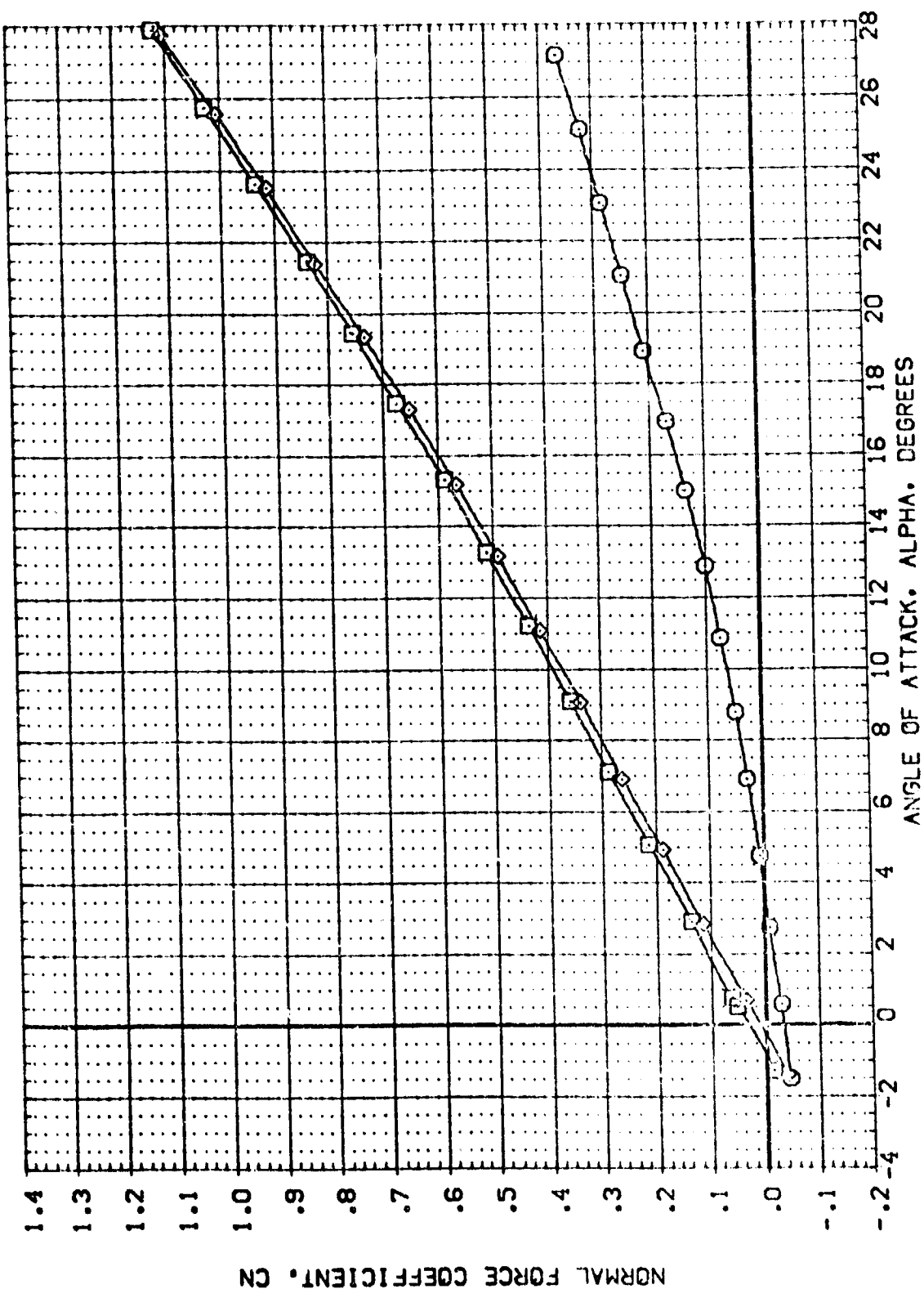


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BODY LP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
[RBT001]	Q	AVES 66-706	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	.000	SREF	2690.0000	50.1 FT.		
[RBT002]	Q	AVES 66-706	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	.000	LREF	474.8000	IN.		
[RBT003]	Q	AVES 66-706	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	.000	BREF	936.6800	IN.		
[RBT004]	Q	AVES 66-706	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	.000	XMRD	1076.4800	IN.		
									YMRD	.0000	IN.		
									ZMRD	400.0000	IN.		
									SCALE	.0150	SCALE		

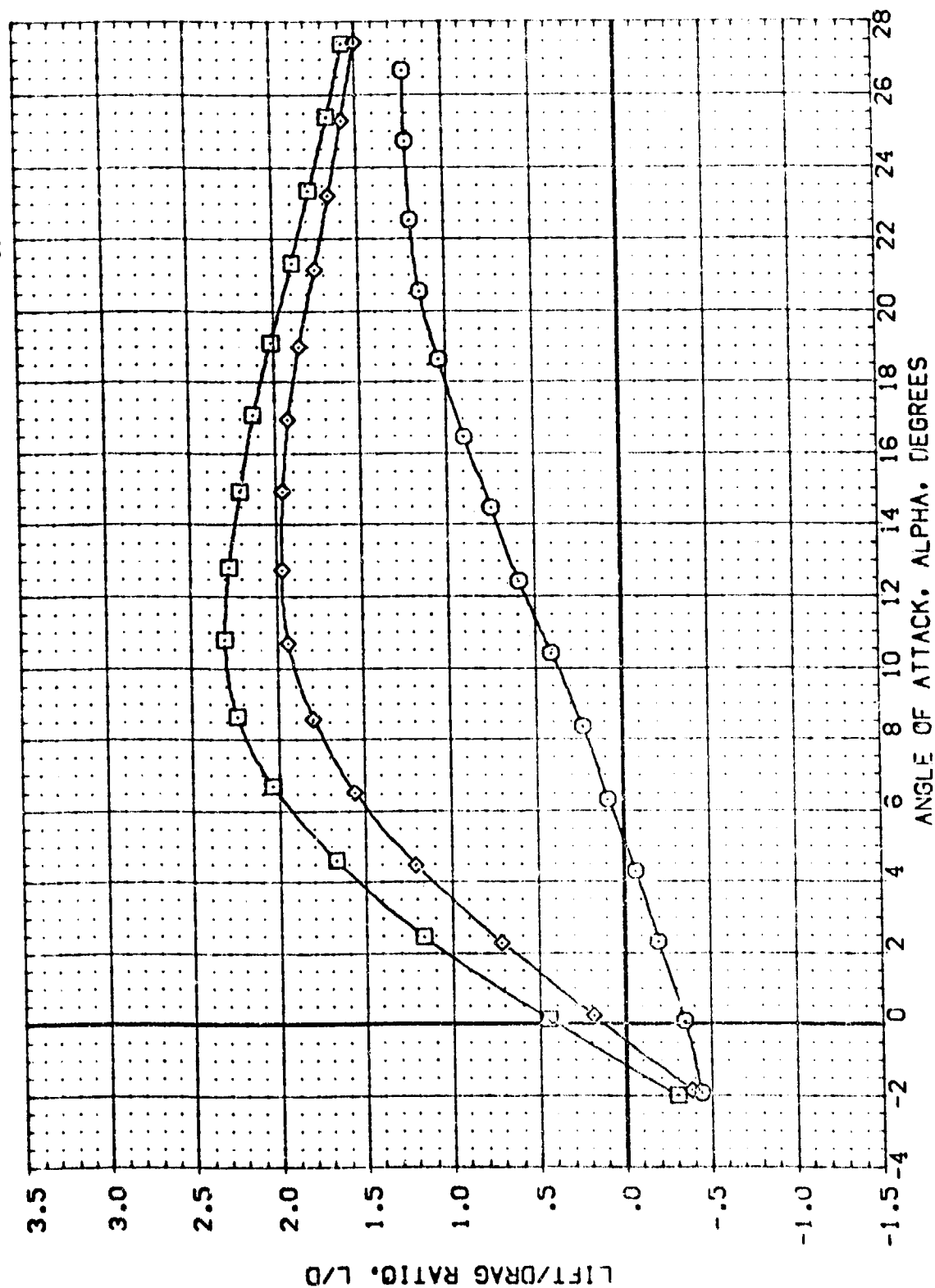


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	FLUDER	SREF	2690.0000	50. FT.
[RB001]	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF	474.8000	
[RB002]	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF	936.5000	
[ZB004]	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	XREF	1076.8000	
						YREF	400.0000	
						ZREF	100.0000	
						SCALE	.0150	SCALE

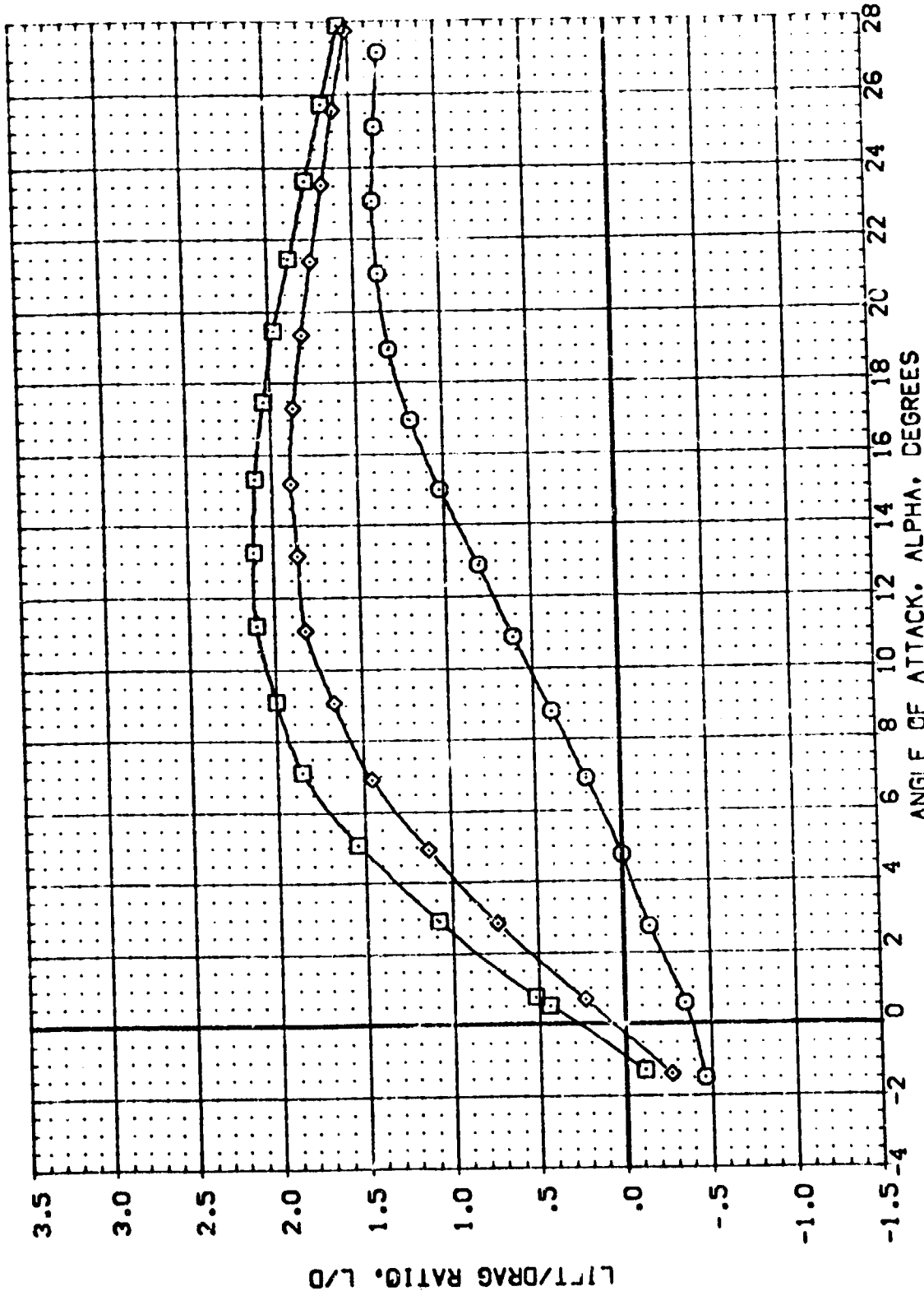


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET: SYMBOL CONFIGURATION DESCRIPTION

[RB1001] Q AMES 66-706 CA43 B:0 CS 07 M3 F4

[RB1002] X DATA NC: AVAILAGE

[RB1004] X AMES 66-706 CA43 B:0 CS 07 M3 F4 V87E18 VSKS

BOOFLP ELEVON SPOBRK RUDDER

-14.200 .000 .000

-14.200 .000

-14.200 .000

REFERENCE INFORMATION

SRUF 2630.0000 SQ.FT.

LBRE 474.8000 IN.

BRRE 936.8800 IN.

X-REF 1076.4800 IN.

Y-REF .0000 IN.

Z-REF 400.0000 IN.

SCALE .0150 SCALE

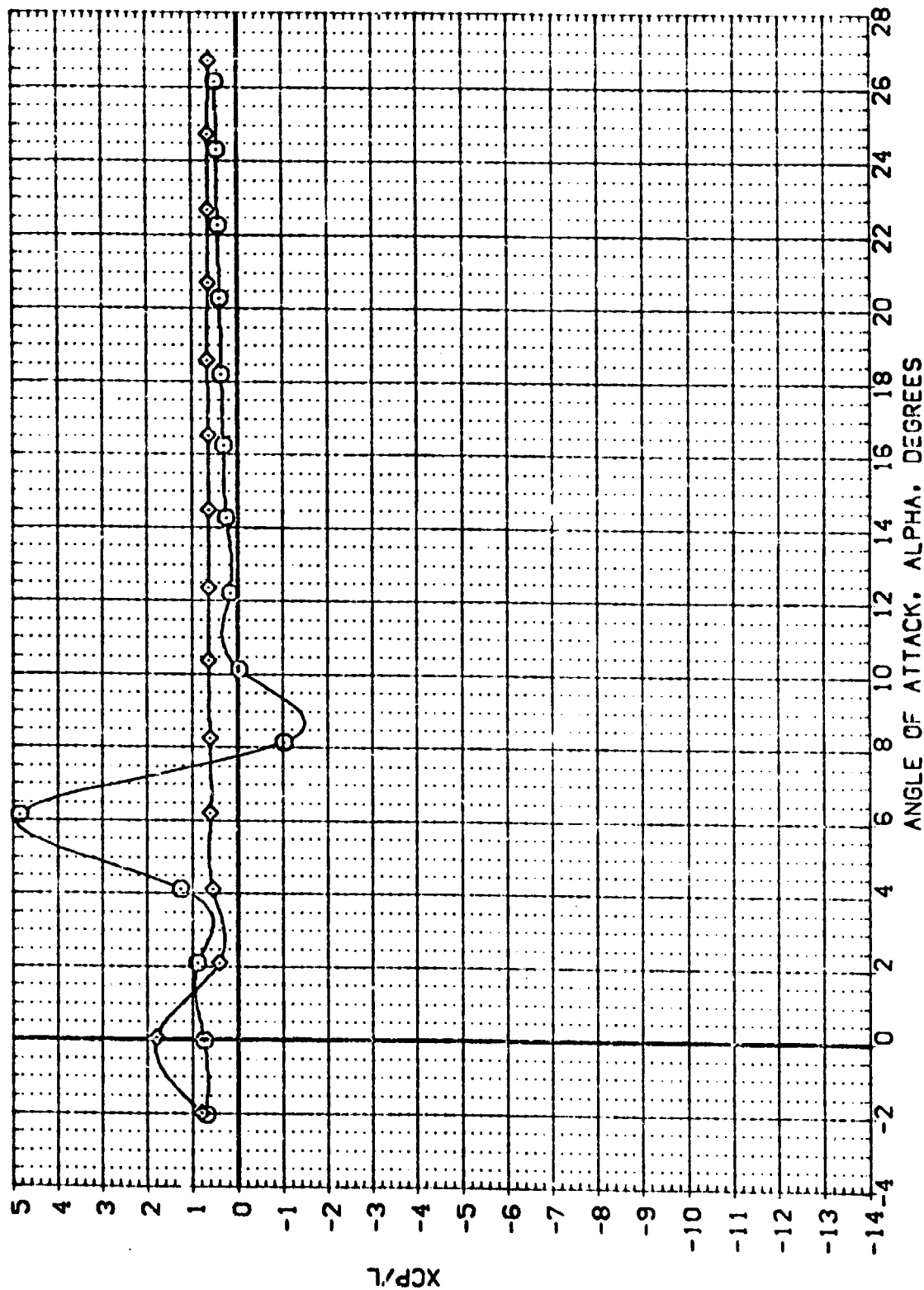


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(A) VACH = .60

DATA SET SYMOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[RBT001]	AVES 66-706 DM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000
[RBT002]	AVES 66-706 DM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF 174.8000
[ZBT004]	AVES 66-706 DM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF 936.6800
						XMRP 1076.1800
						YMRP .0000
						ZMRP 100.0000
						SCALE .0150

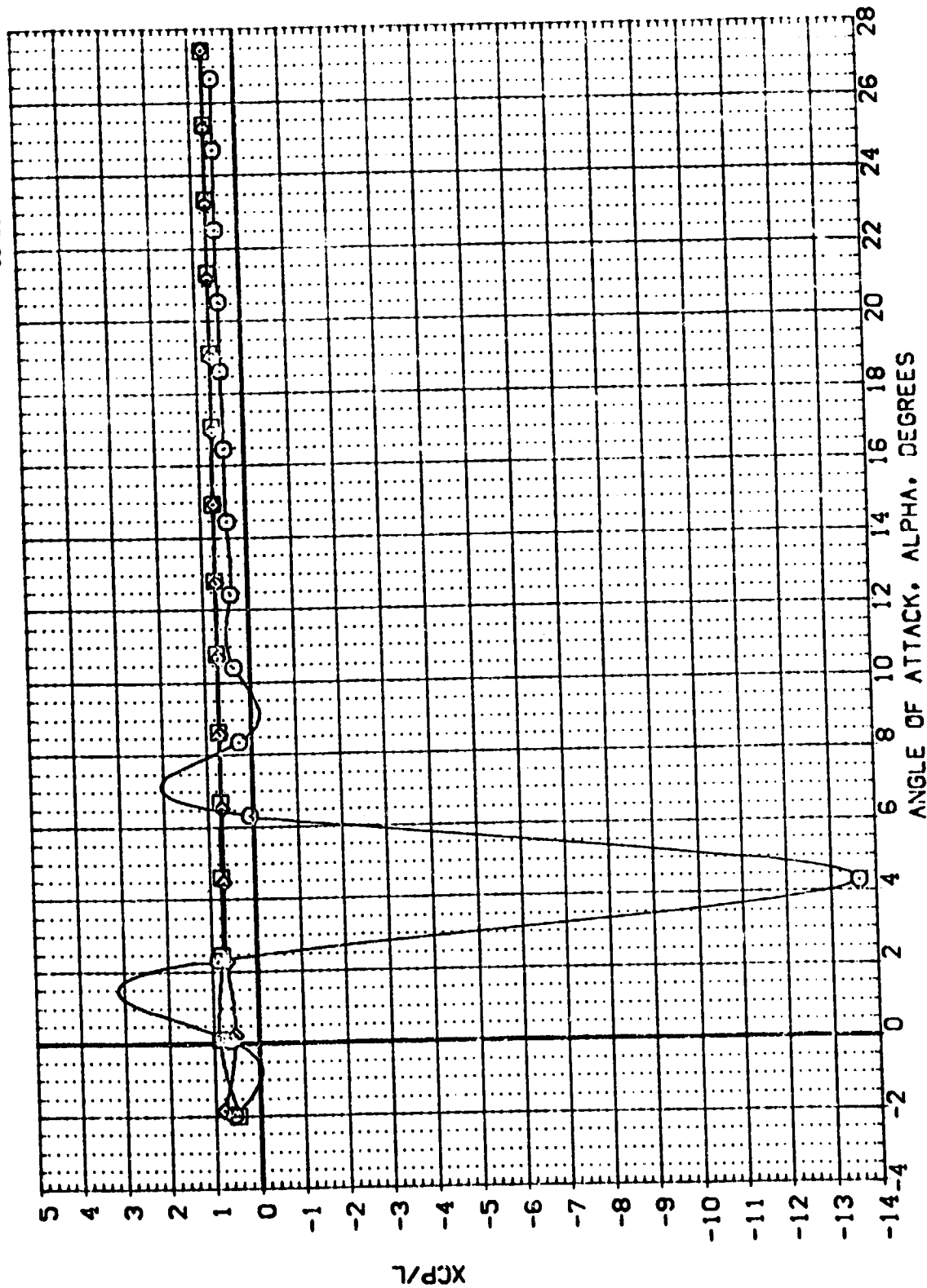


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOJFLP		ELEVON		SPOBRM		RUDDER		REFERENCE INFORMATION	
(A87001)	Q	AVES 68-70S	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	2630.0000	50. FT.				
(A87002)	Q	AVES 68-70S	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	474.8000	IN.				
(Z81004)	Q	AVES 68-70S	CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	936.6800	IN.				
								1076.4800	IN.				
								400.0000	IN.				
								400.0000	IN.				
								0.0150	SCALE				

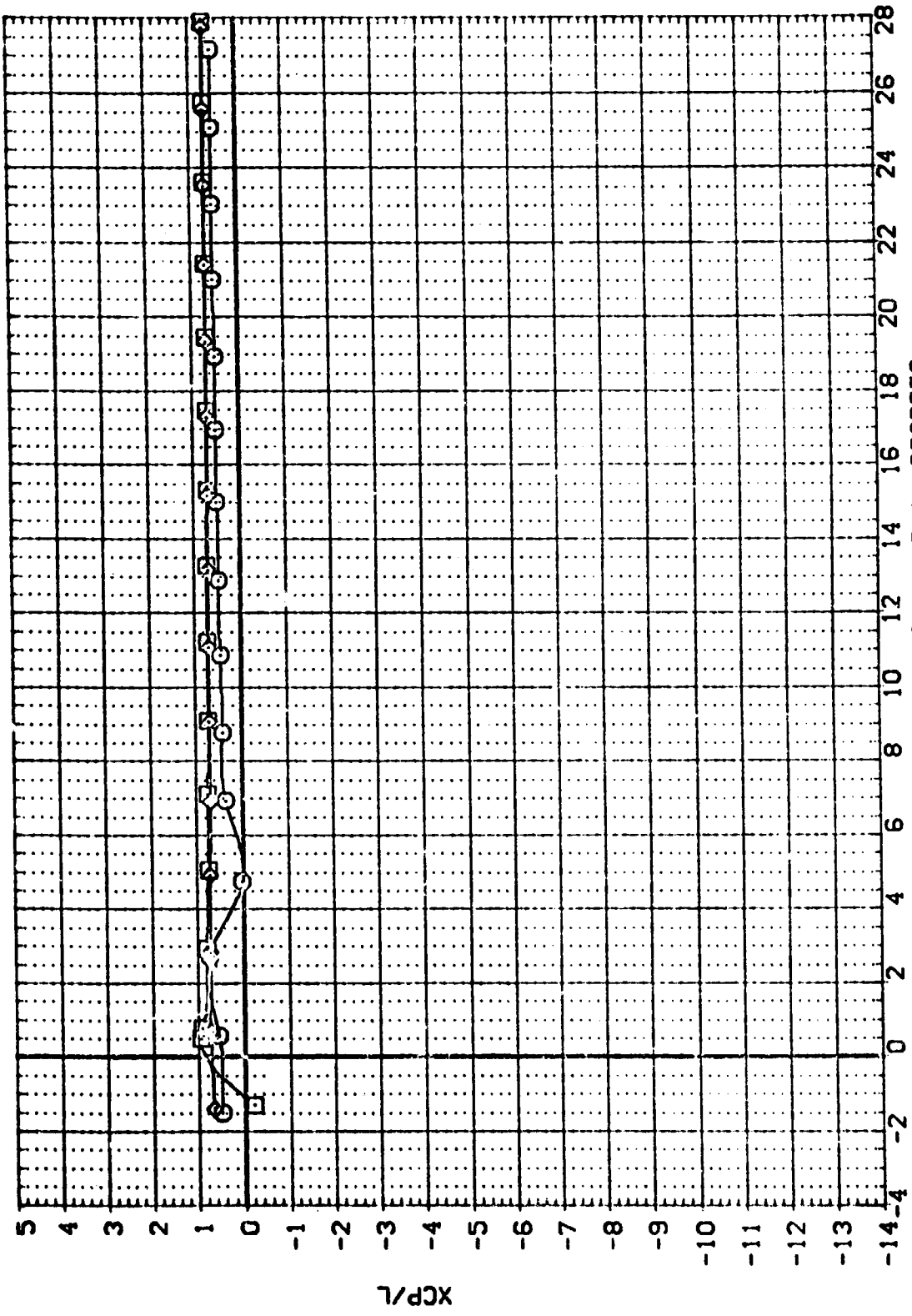


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION	
[RPT001]	AVES 66-706 0A43 810 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF	2690.0000	50. FT.					
[RPT002]	DATA NOT AVAILABLE	-14.200	.000			LREF	474.8000	IN.					
[ZBT004]	AVES 66-706 0A43 810 CS D7 M3 F4 V87E18 VS95	-14.200	.000			BREF	926.6800	IN.					
						X-PRP	1076.4800	IN.					
						Y-PRP	.0000	IN.					
						Z-PRP	400.0000	IN.					
						SCALE	.0150	SCALE					

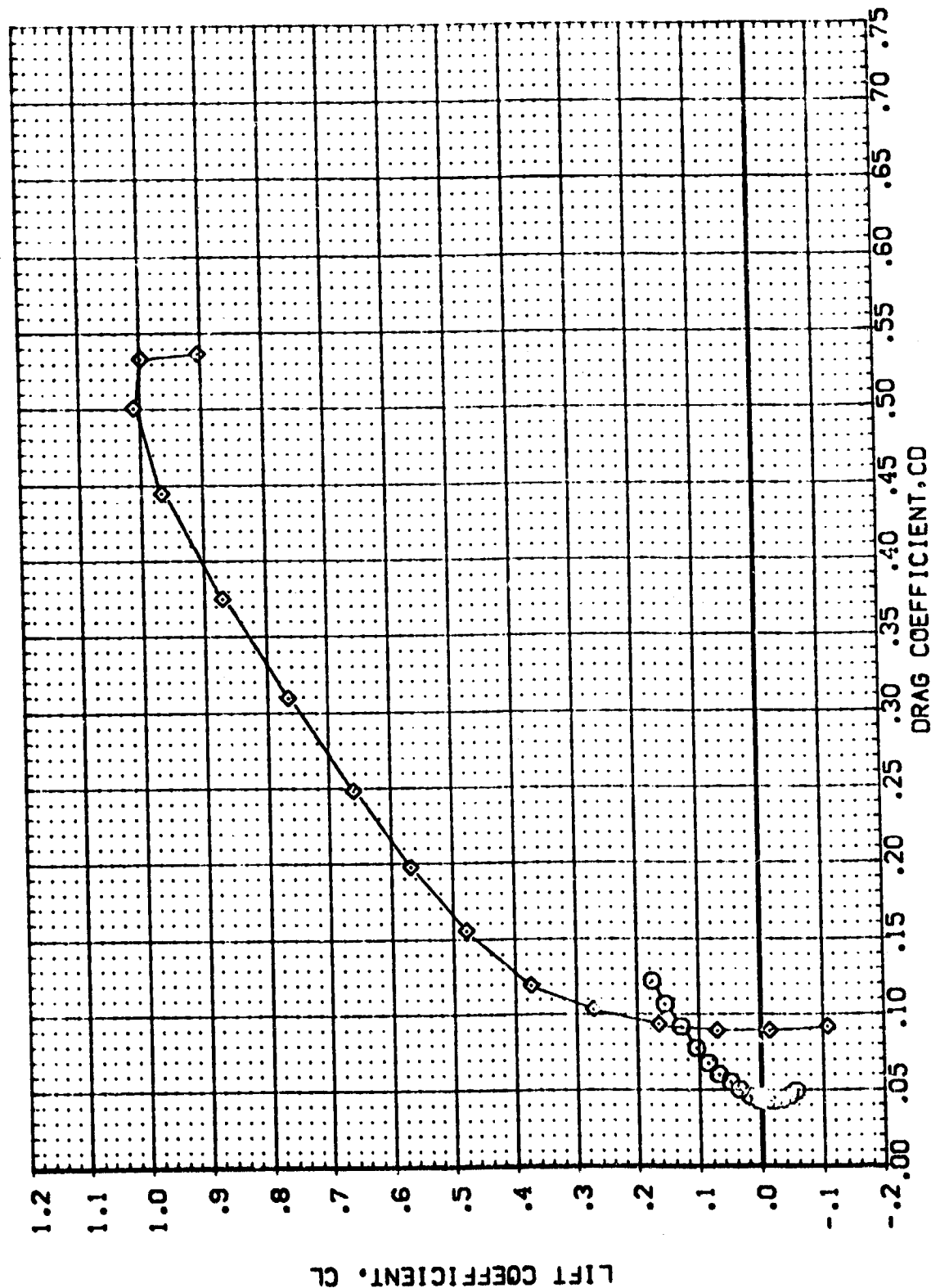


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBTCC1)	AVES 66-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
(RBTCC2)	AVES 66-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(ZBTCC4)	AVES 66-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

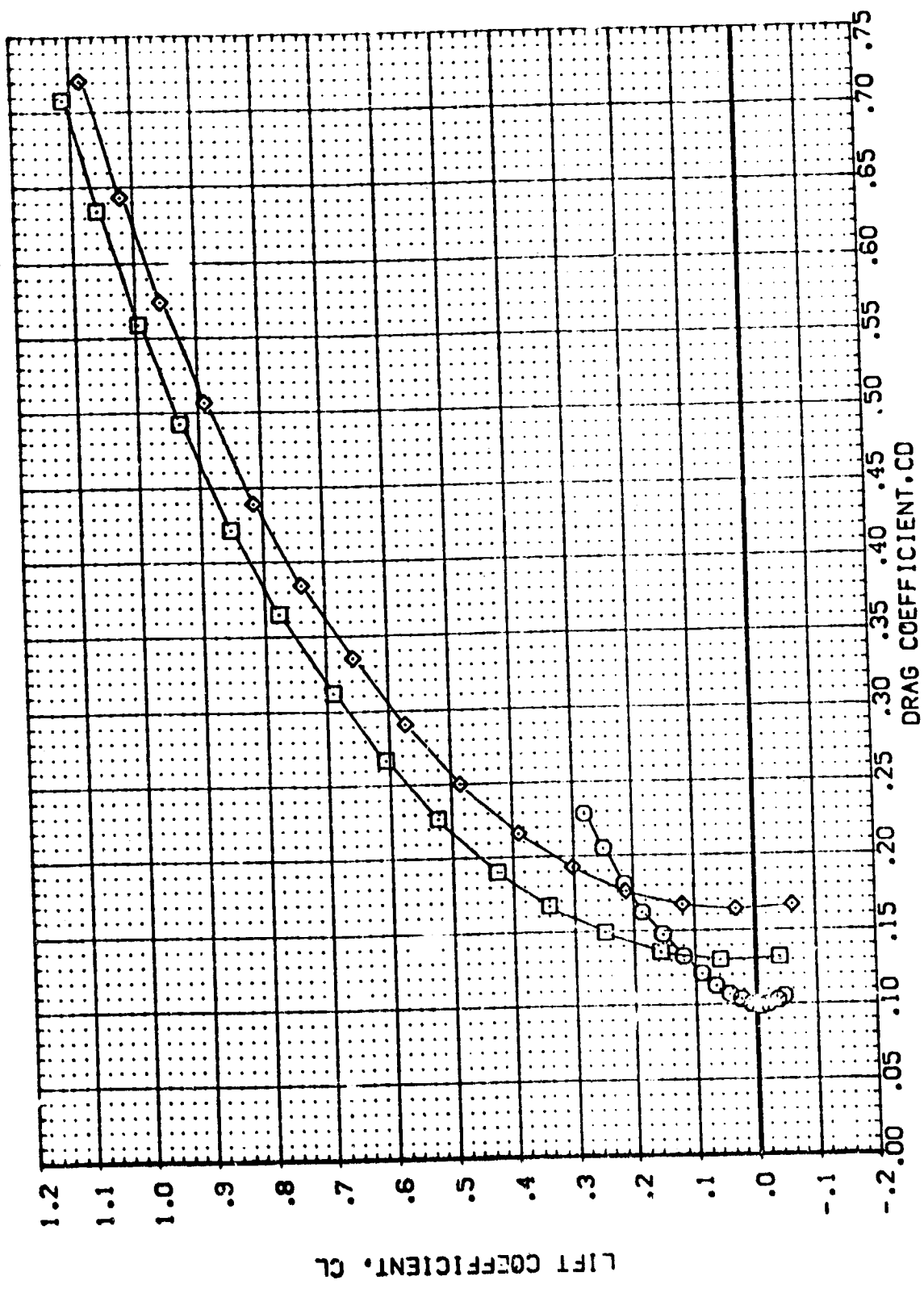


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION	
[RBT001]	A-ES 66-705 DM43 B10 CS 07 M3 F4	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
[RBT002]	A-ES 66-705 DM43 B10 CS 07 M3 F4	-14.200	.000			LREF	474.8000 IN.
[RBT003]	A-ES 66-705 DM43 B10 CS 07 M3 F4					BREF	936.8800 IN.
[RBT004]	A-ES 66-705 DM43 B10 CS 07 M3 F4					XREF	1076.4800 IN.
[RBT005]	A-ES 66-705 DM43 B10 CS 07 M3 F4					YREF	.0000 IN.
						ZREF	400.0000 IN.
						SCALE	.0150

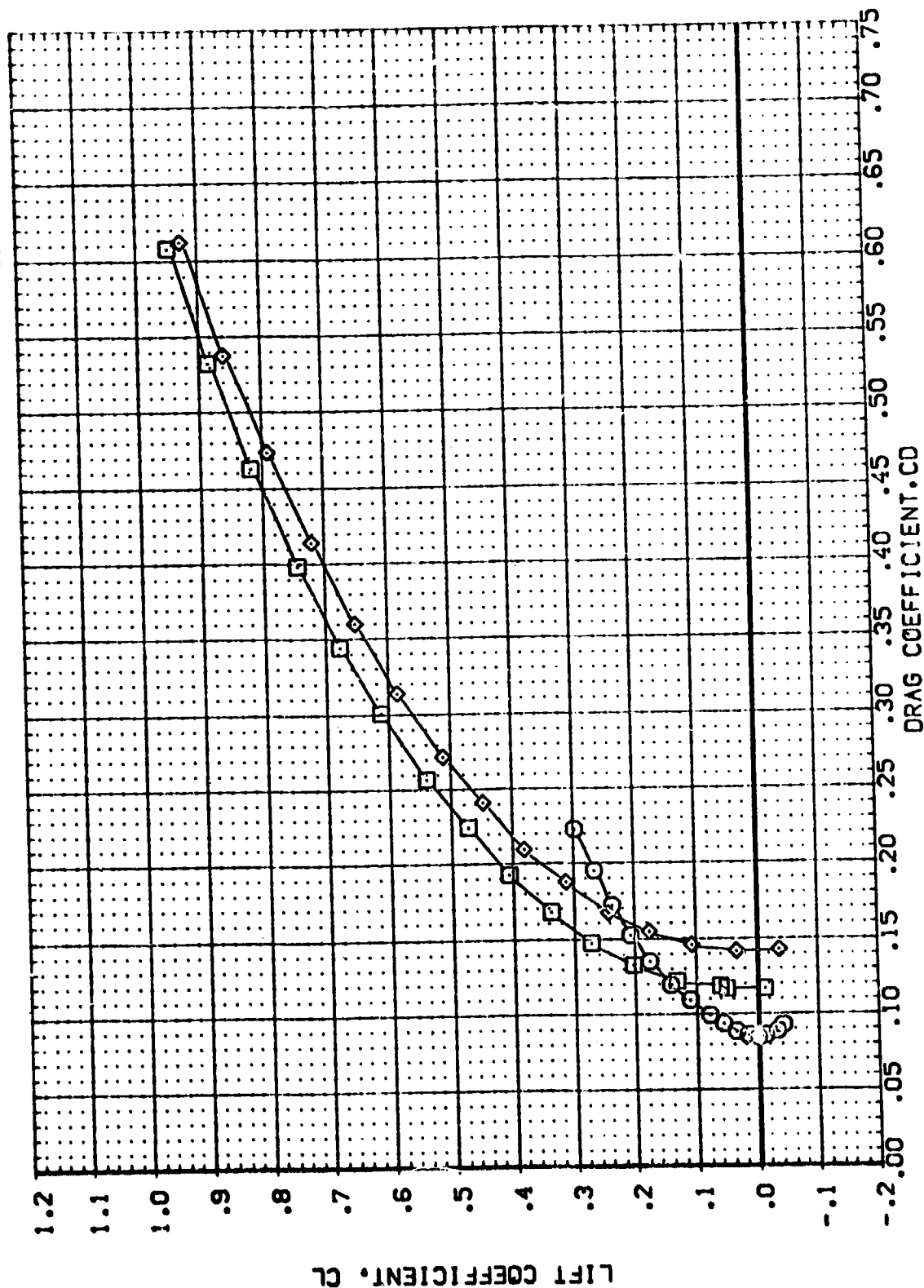


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RST001)	AVES 66-706 QM43 B10 C5 D7 M3 F4	-14.200	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RST002)	DATA NOT AVAILABLE	-14.200	.000	54.900		LREF 474.8000
(RST004)	AVES 66-706 QM43 B10 C5 D7 M3 F4 V87E18 V5R5	-14.200				BREF 936.6800
						XPRP 1076.4800
						YPRP .0000
						ZPRP 400.0000
						SCALE .0150

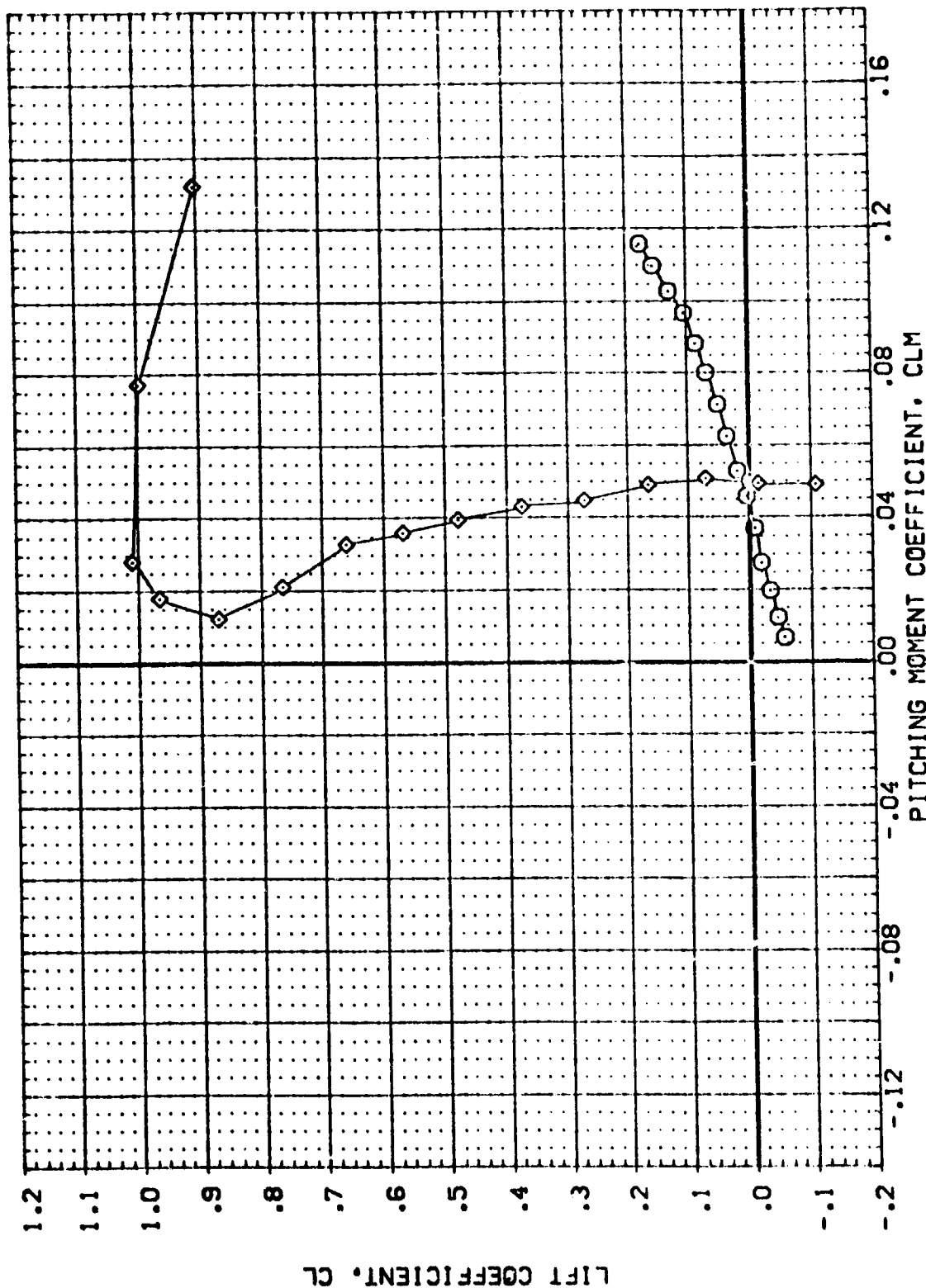


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(MACH = .60)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(RST001)	AVES 66-705	DA13	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	SREF	2630.0000
(RST002)	AVES 66-705	DA13	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	LREF	474.8000
(RST003)	AVES 66-705	DA13	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	BREF	936.6800
(RST004)	AVES 66-705	DA13	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	YPRP	1076.4800
												ZPRP	400.0000
												SCALE	.0150
													SQ.FT.
													IN.
													MM.
													CM.

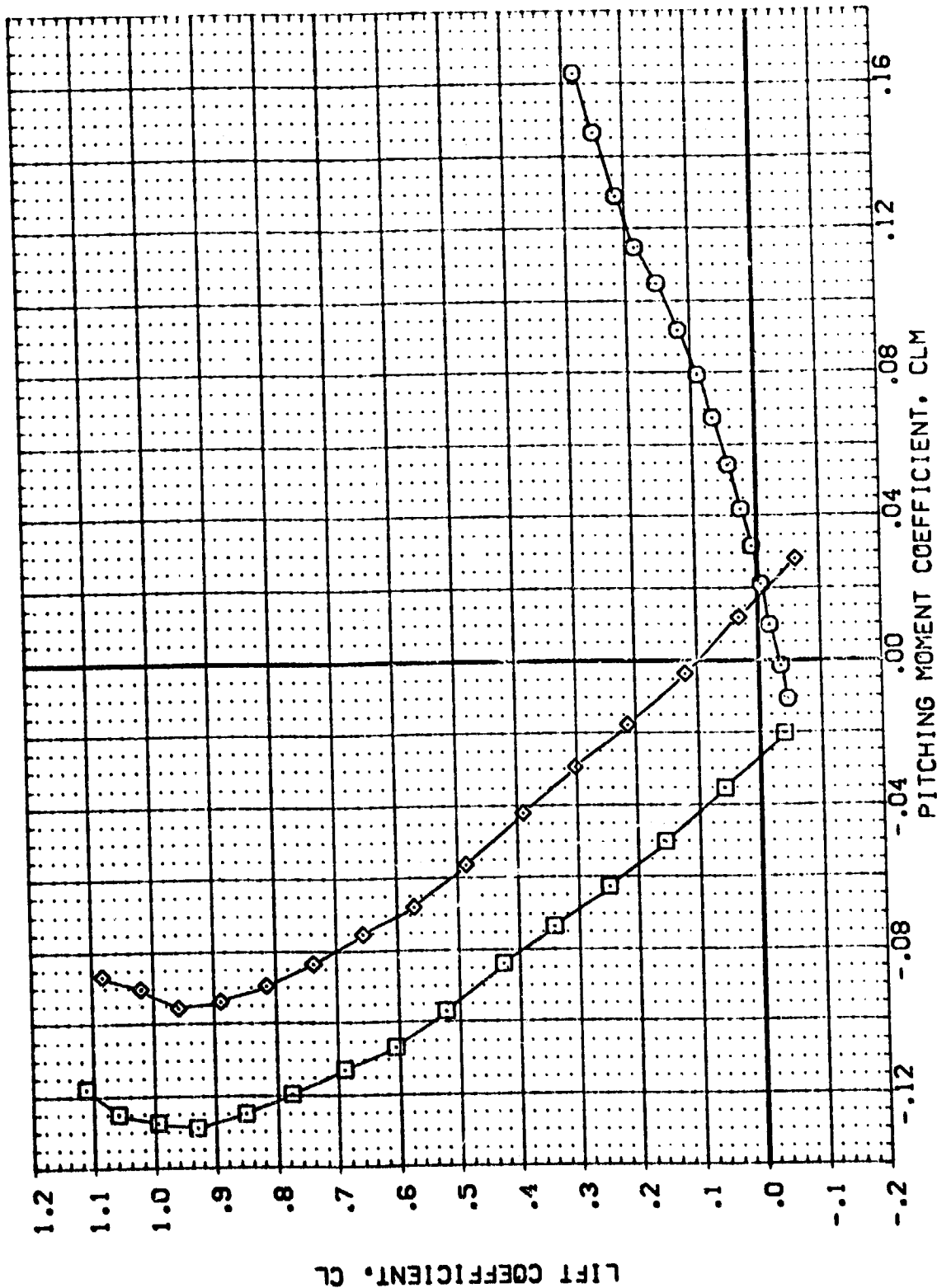


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT001)	AVES 66-706 CA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RBT002)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18	-14.200	.000	.000	.000	LREF 474.8000 IN.
(ZBT004)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 V595	-14.200	.000	.000	.000	BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 100.0000 IN.
						SCALE .0150

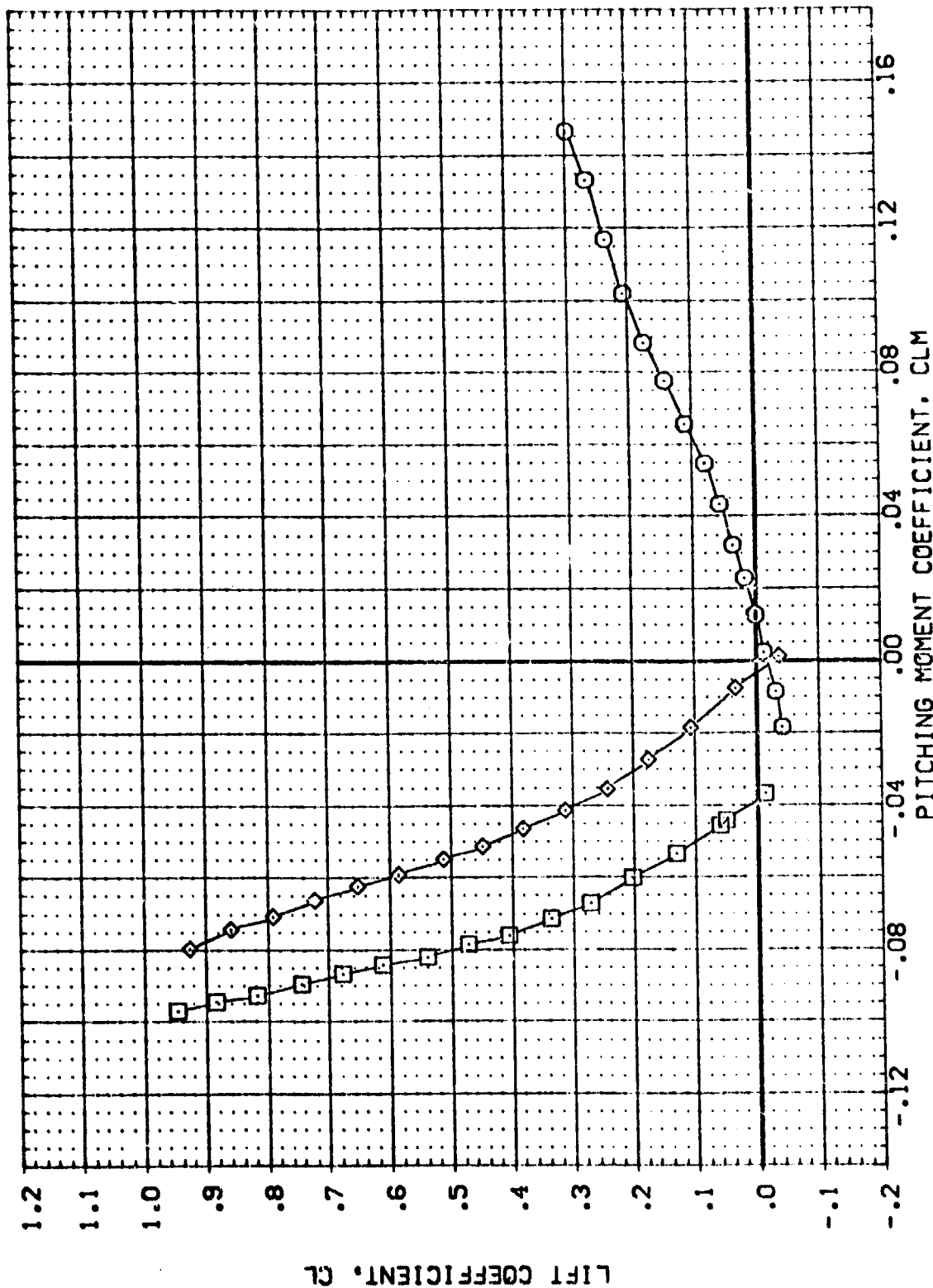


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(CMACH = 2.00)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(RBT001)	AVES 65-706 QM3 B10 CS 67 H3 F4	-14.200	.000	.000	51.900	.000	SREF	2690.0000	SG.FT.				
(RBT002)	DATA NOT AVAILABLE	-14.200	.000	.000			LREF	474.8000	IN.				
(ZBT004)	AVES 65-706 QM3 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	.000			BREF	936.6800	IN.				
							XMRP	1076.4800	IN.				
							YMRP	.0000	IN.				
							ZMRP	400.0000	IN.				
							SCALE	.0150	SCALE				

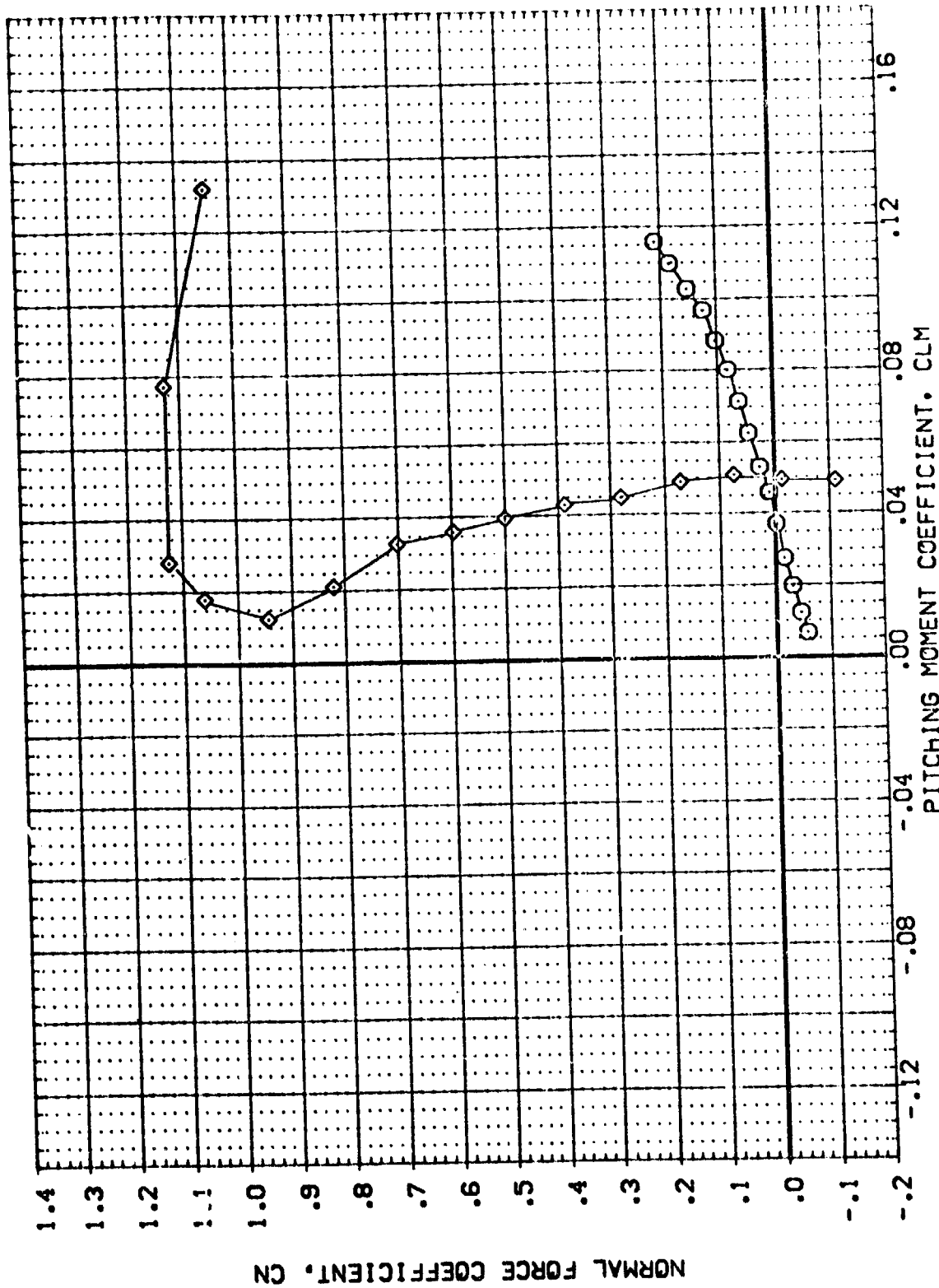


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(MACH = .60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT001)	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RBT002)	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	LREF 474.8000 IN.
(ZBT004)	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	BREF 936.6800 IN.
						YMRP 1076.4800 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

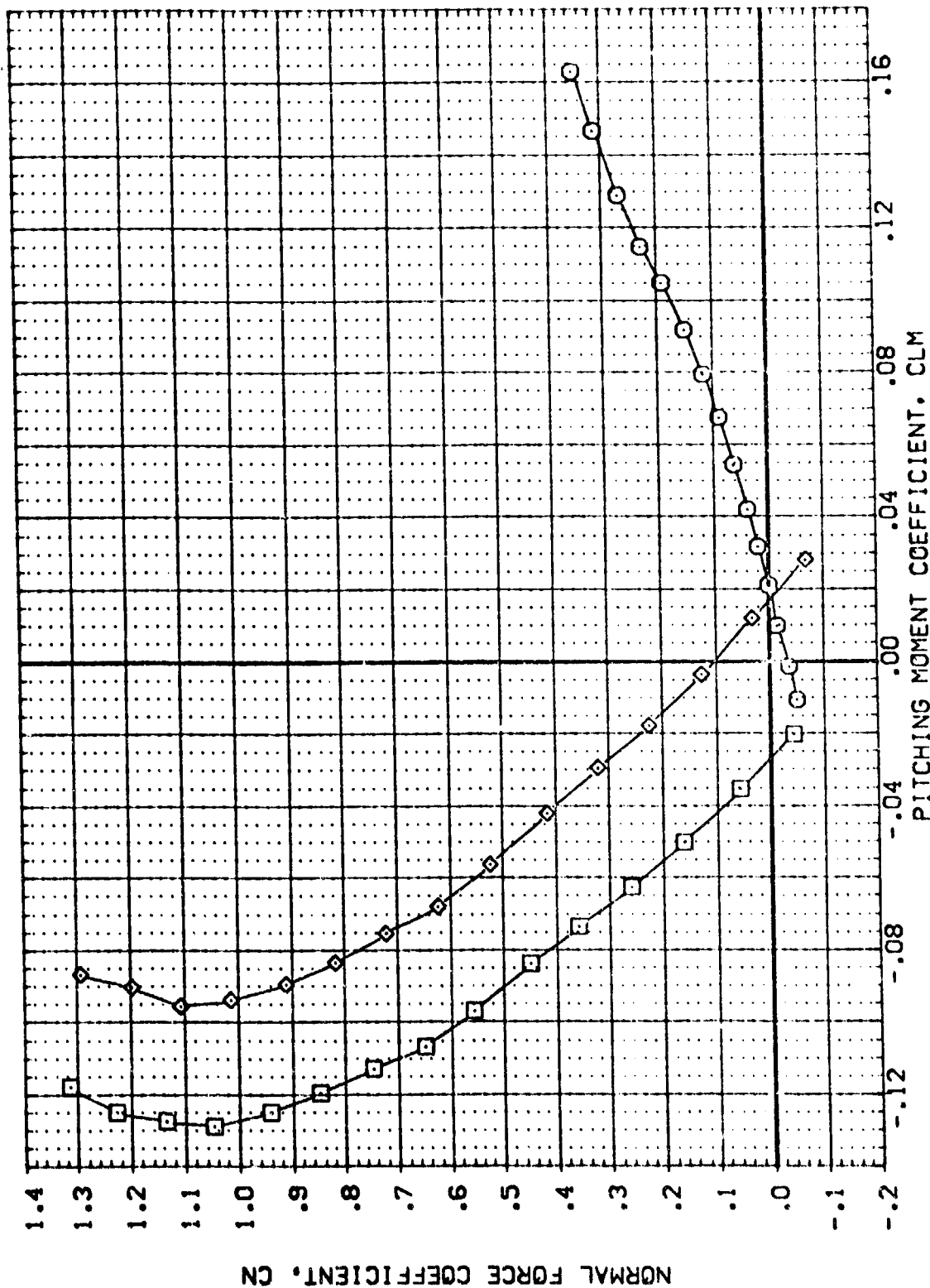


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) VACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION	
[RBT001]	AMES 66-706	DA43	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	SREF	2690.0000
[RBT002]	AMES 66-706	CA43	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	LREF	474.8000
[ZBT004]	AMES 66-706	DA43	B10	CS	D7	M3	F4	-14.200	.000	54.900	.000	BREF	936.6000
												XPRP	1076.4600
												YPRP	400.0000
												ZPRP	400.0000
												SCALE	.0150
													SCALE

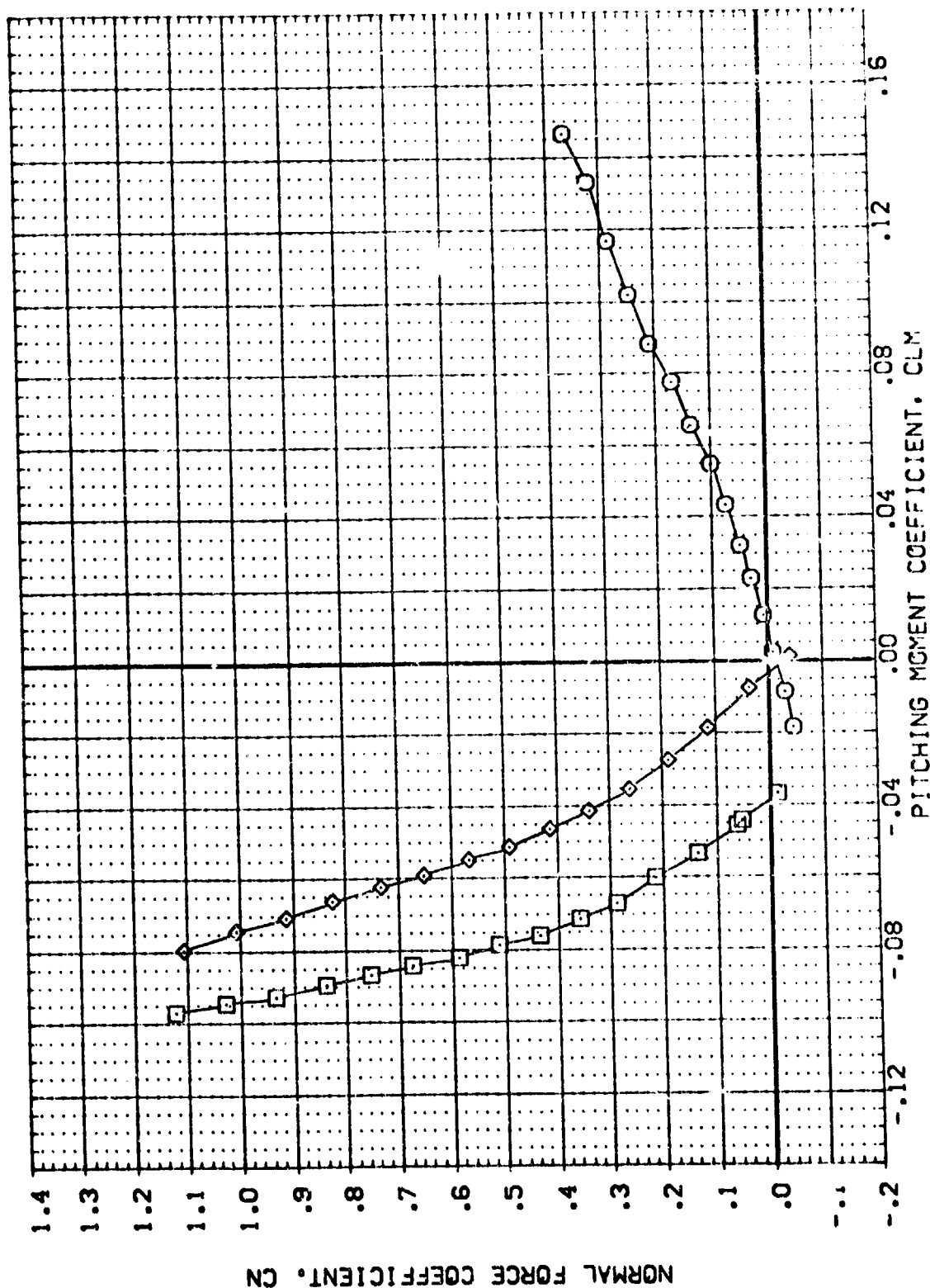


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)MACH = 2.00



DATA SET SYMBOL: [RBT001] [RBT002] [ZBT004]

CONFIGURATION DESCRIPTION: AVES 66-706 CA43 B10 CS 07 M3 F4
 DATA NOT AVAILABLE
 AVES 66-706 CA43 B10 CS 07 M3 F4 V87E18 VSRS

BOOF LP: -14.200
 ELEVON: .000
 SP0BRK: 54.900
 RUDDER: .000

REFERENCE INFORMATION: SREF 2690.0000 54. FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP 400.0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

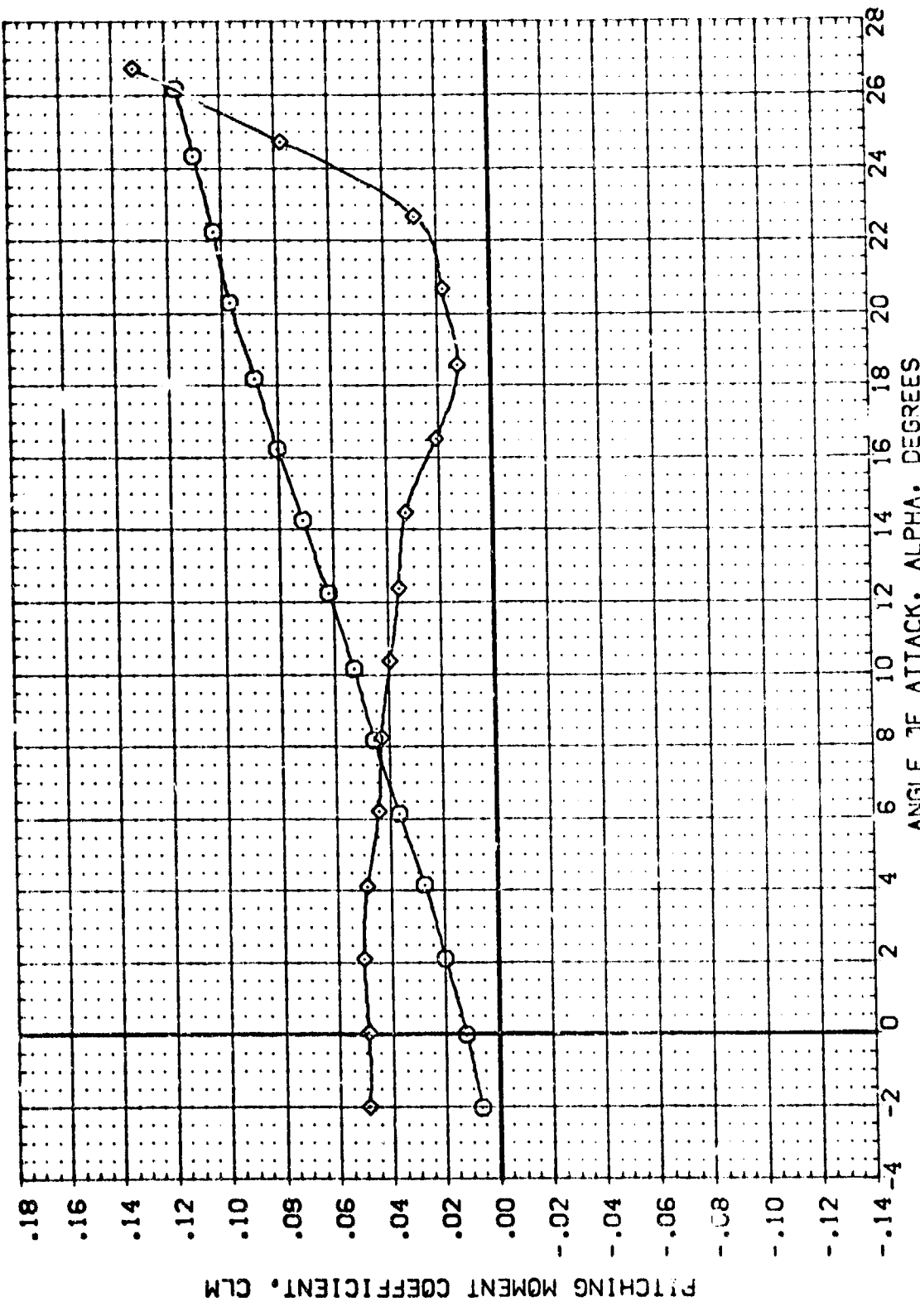


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

CAVACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPORRK		R.ODER		REFERENCE INFORMATION	
[887001]	○	AVES 66-706	DA13 B10 CS D7 M3 F4	-14.200	.000	.000	.000	54.900	.000	SREF	2690.0000	SC.F.T.	
[887002]	◇	AVES 66-706	DA13 B10 CS D7 M3 F4	-14.200	.000	.000	.000	54.900	.000	LREF	474.8000	ZZ	
[287004]	□	AVES 66-706	DA13 B10 CS D7 M2 F4	-14.200	.000	.000	.000	54.900	.000	BREF	936.6600	ZZ	
										XREF	1076.4800	ZZ	
										YREF	400.0000	ZZ	
										ZREF	400.0000	SCALE	
										SCALE	.0150		

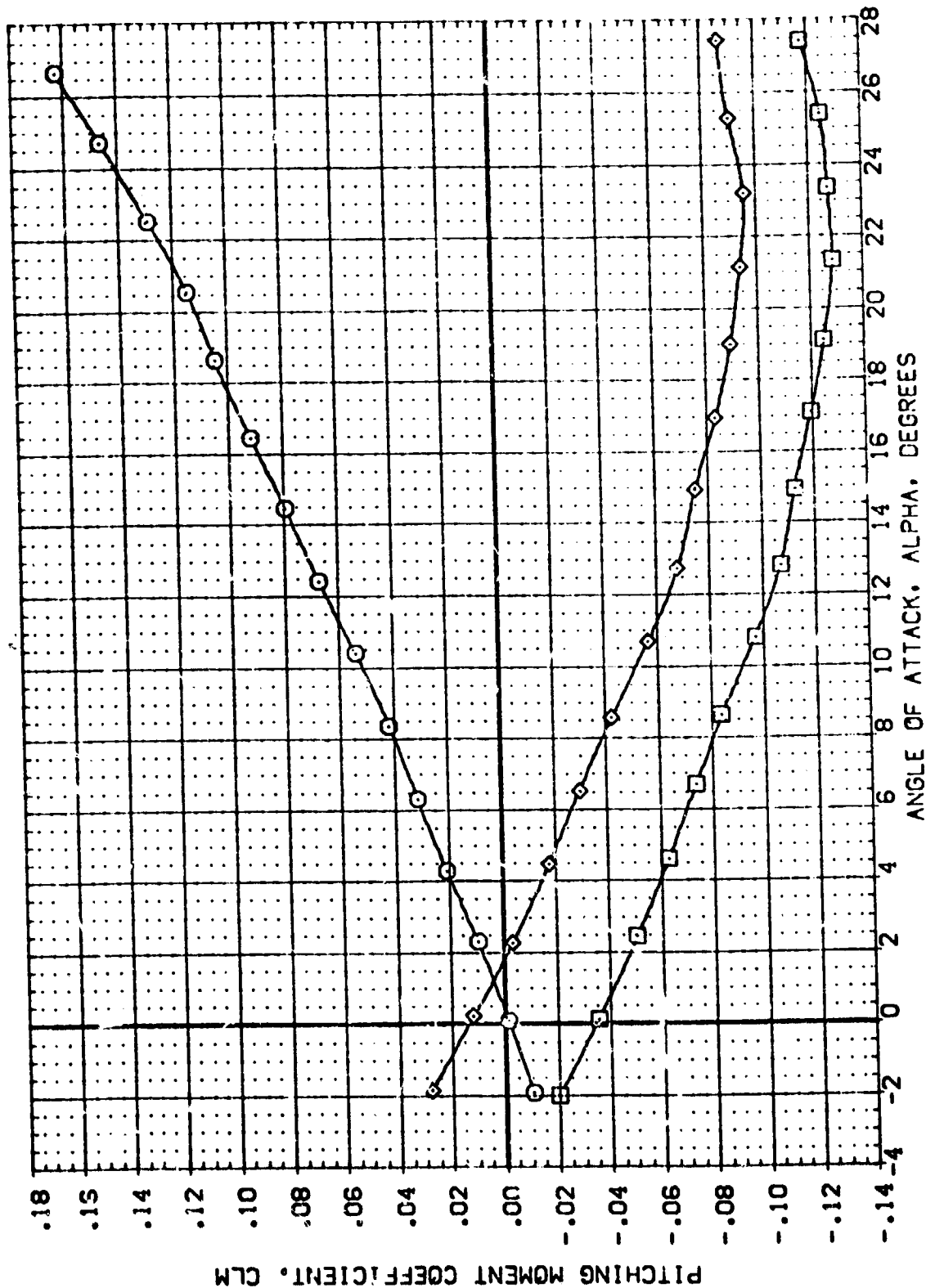


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B)MACH = 1.50

DATA SET SYMBOL: (88T001)
 (88T002)
 (88T003)
 (88T004)

CONFIGURATION DESCRIPTION
 AYES 66-706 UM3 B10 CS 07 M3 F4
 DATA NOT AVAILABLE
 AYES 66-706 DM3 B10 CS 07 M3 F4 W87E18 VSMS

BOOF LP ELEVON SPOBRK RUDDER
 -14.200
 -14.200
 -14.200

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.8600 IN.
 XMRP 11.03.2400 IN.
 YMRP .0000 IN.
 ZMRP 100.0000 IN.
 SCALE .0150

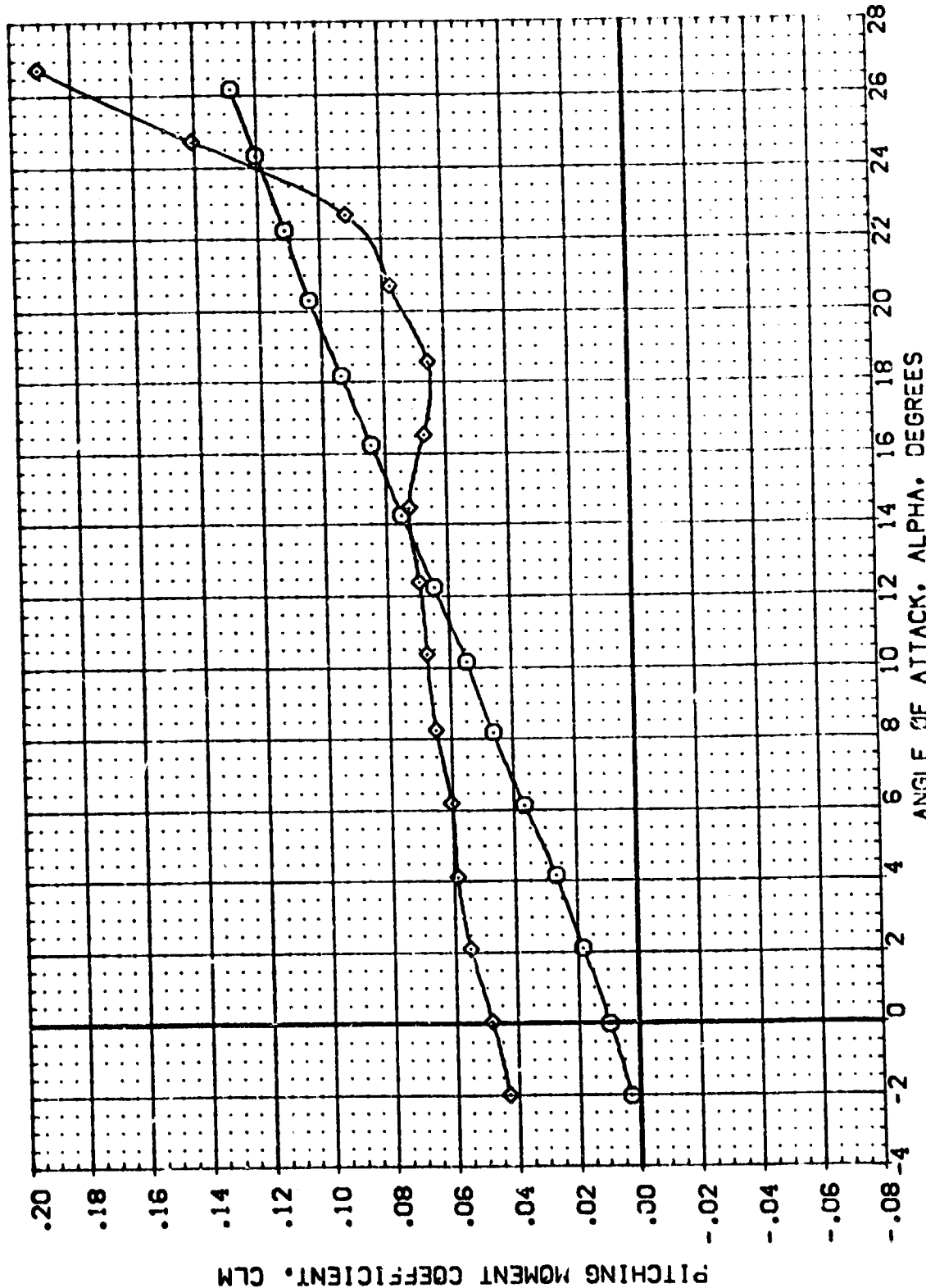


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	STICK	RUDDER	REFERENCE INFORMATION	
[881001]	9	DATA NOT AVAILABLE	-14.200	.000			SREF	2690.0000
[881002]		DATA NOT AVAILABLE	-14.200	.000	51.900	.000	LREF	474.8000
[881004]		AMES 66-706 0A43 B10 CS D7 PG F4 V67E1R V5K5					BREF	936.6900
							XPRP	1103.2400
							YPRP	100.0000
							ZPRP	100.0000
							SCALE	.0150
								IN.
								IN.
								IN.
								IN.
								IN.

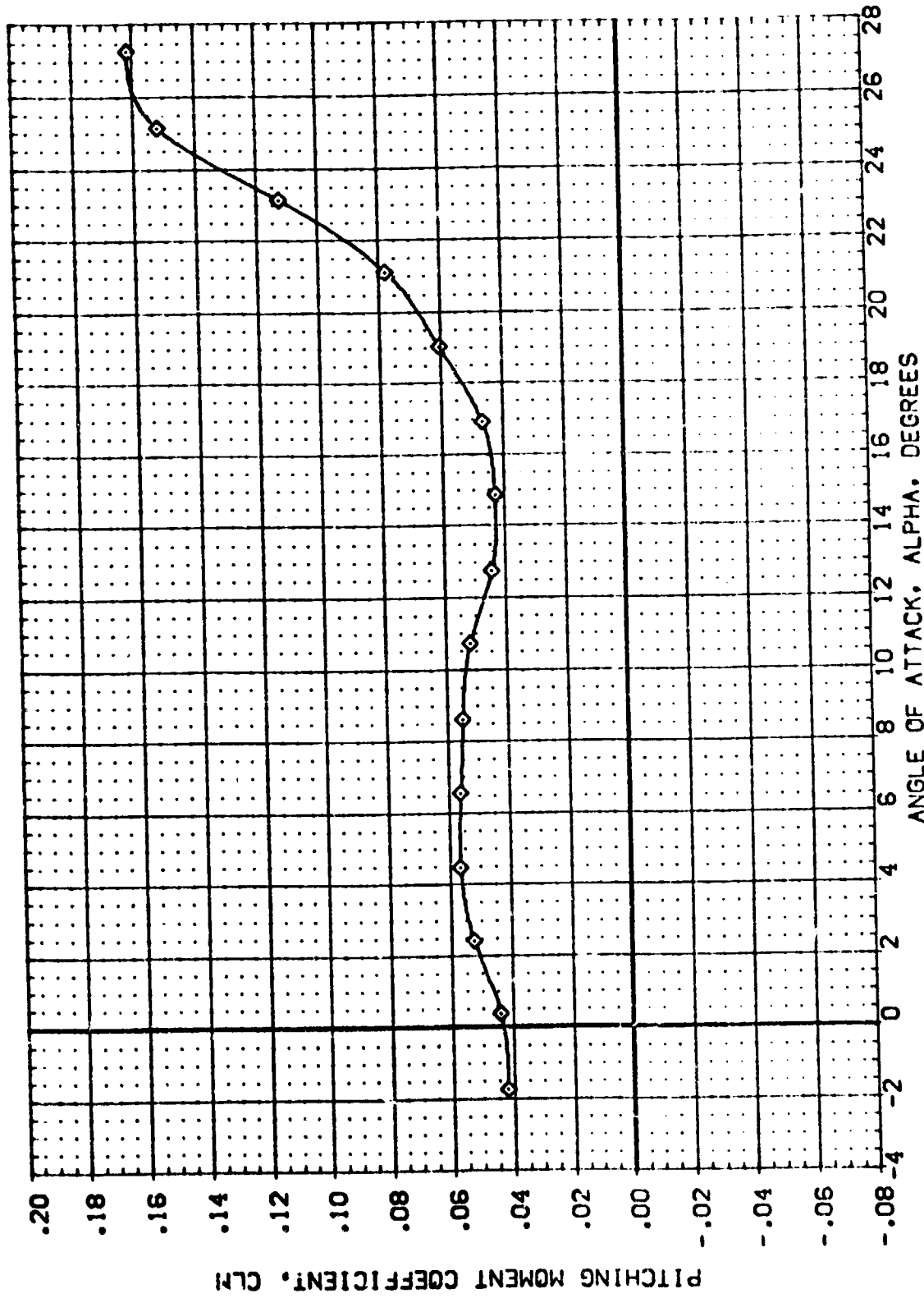


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(B)YACH = .9:

DATA SET SYMBOL

(BBT001)
(BBT002)
(BBT004)

DATA NOT AVAILABLE
DATA NOT AVAILABLE
A-ES 66-706 0A13 B10 CS 07 H3 F4 V07E10 V5K5

CONFIGURATION DESCRIPTION

BOOFLP -14.200
ELEVON .000
RUDDER .000

REFERENCE INFORMATION
SREF .690.0000 90.FT.
LREF .74.8000 IN.
BREF 9.36.6800 IN.
XREF 1103.2400 IN.
YREF .0000 IN.
ZREF 400.0000 IN.
SCALE .0150

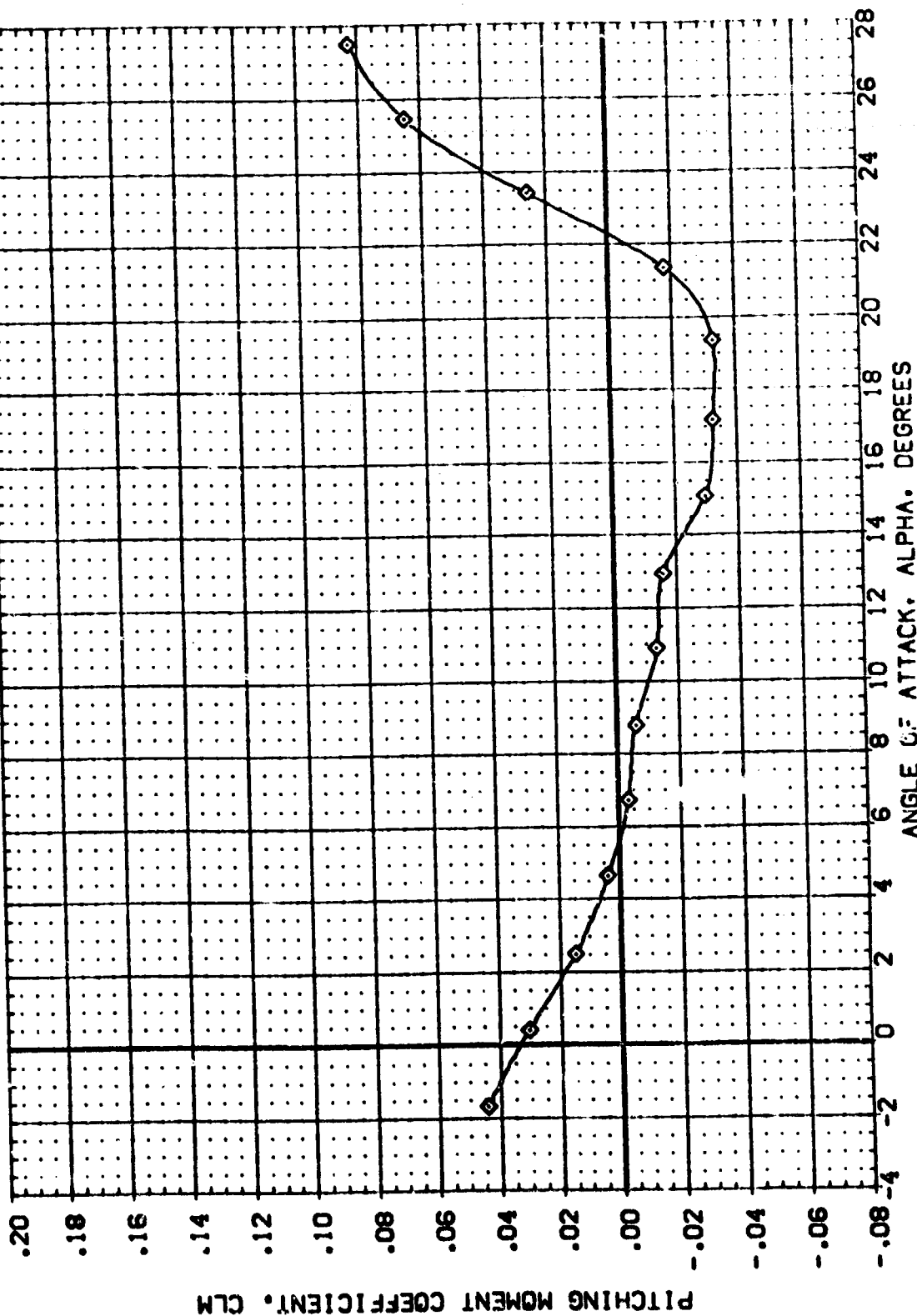


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(88:001)	AES 66-706 CM3 B10 CS D7 MG F4	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
(88:002)	AES 66-706 CM3 B10 CS D7 MG F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(88:003)	AES 66-706 CM3 B10 CS D7 MG F4	-14.200	.000	54.900	.000	BREF 936.5800 IN.
						YREF 1103.2400 IN.
						ZREF .0000 IN.
						YPRP 400.0000 IN.
						ZPRP .0150 IN.
						SCALE

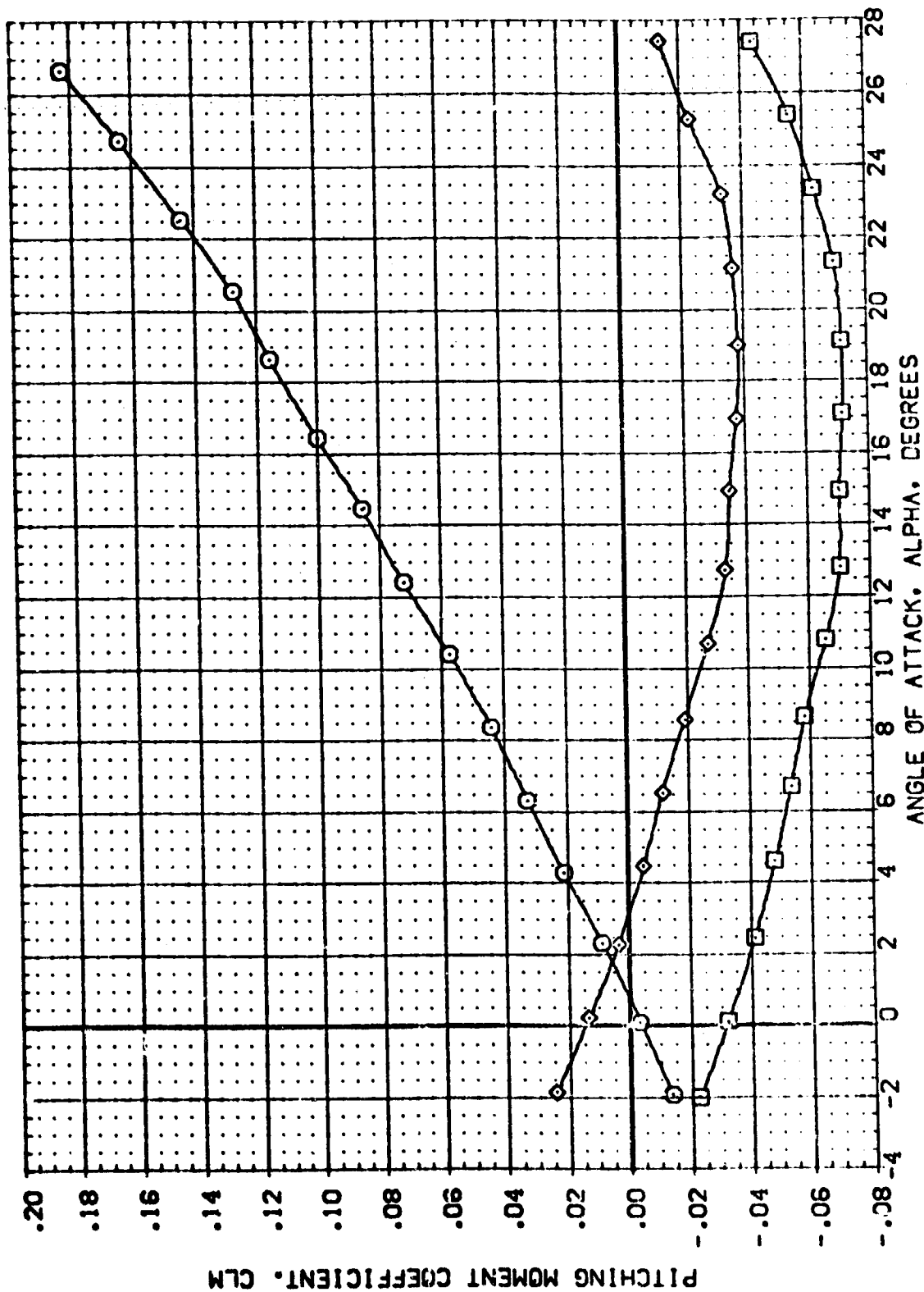


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(C)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPORRK		RUDDER		REFERENCE INFORMATION	
(88T001)	AVES 65-705	DM43	B10	CS	07	M3	F4	-14.200	.000	54.900	.000	SREF	2690.0000
(88T002)	AVES 65-705	CA43	B10	CS	07	M3	F4	-14.200	.000	54.900	.000	LREF	474.8000
(88T004)	AVES 65-705	CA43	B10	CS	07	M3	F4	-14.200	.000	54.900	.000	BREF	936.5800
												YMRP	1103.2400
												YMRP	400.0000
												SCALE	.0150

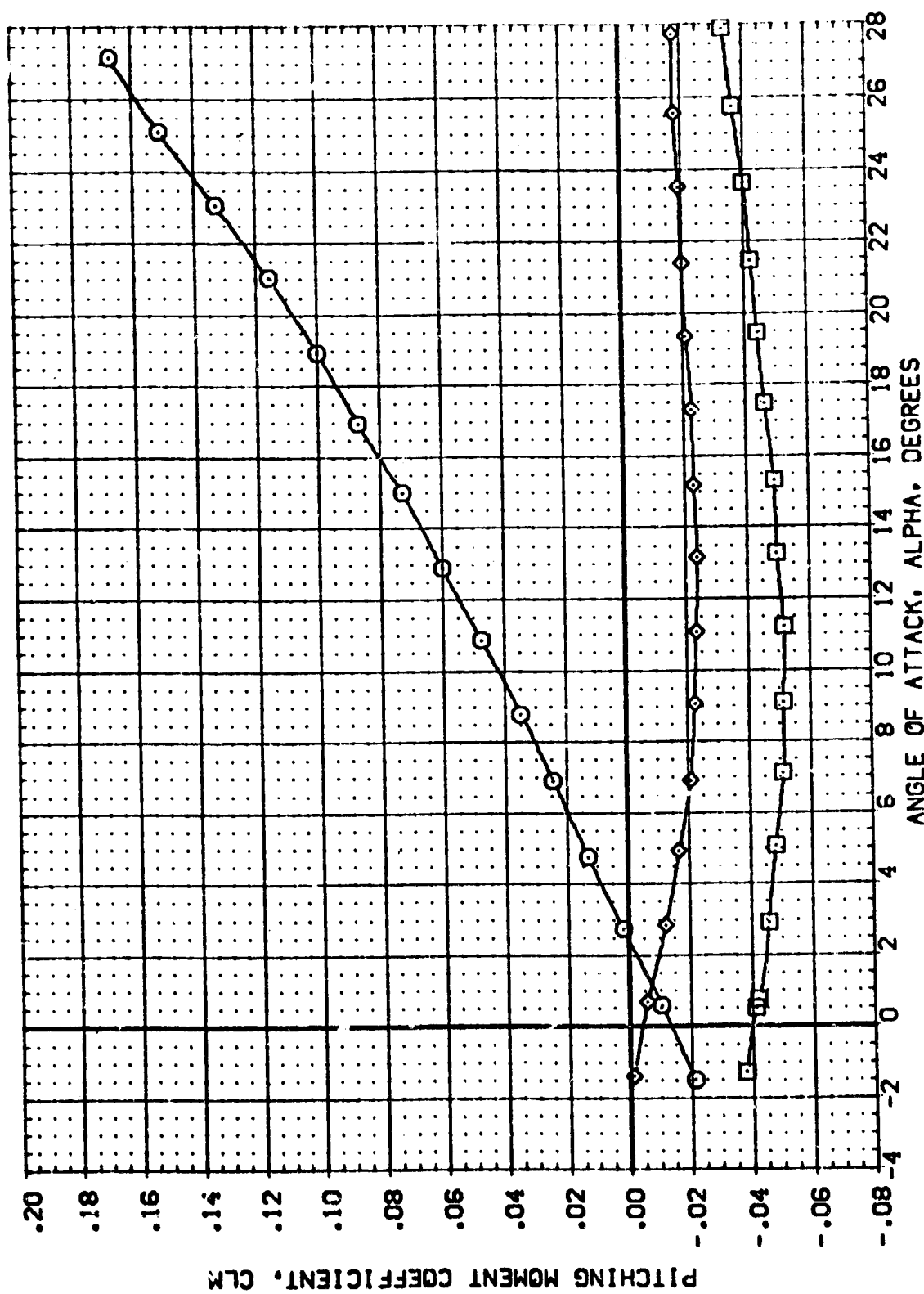


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(M)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(DBT001)	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(DBT002)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18	-14.200	.000			LREF 474.8000 IN.
(DBT004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS					BREF 936.5800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

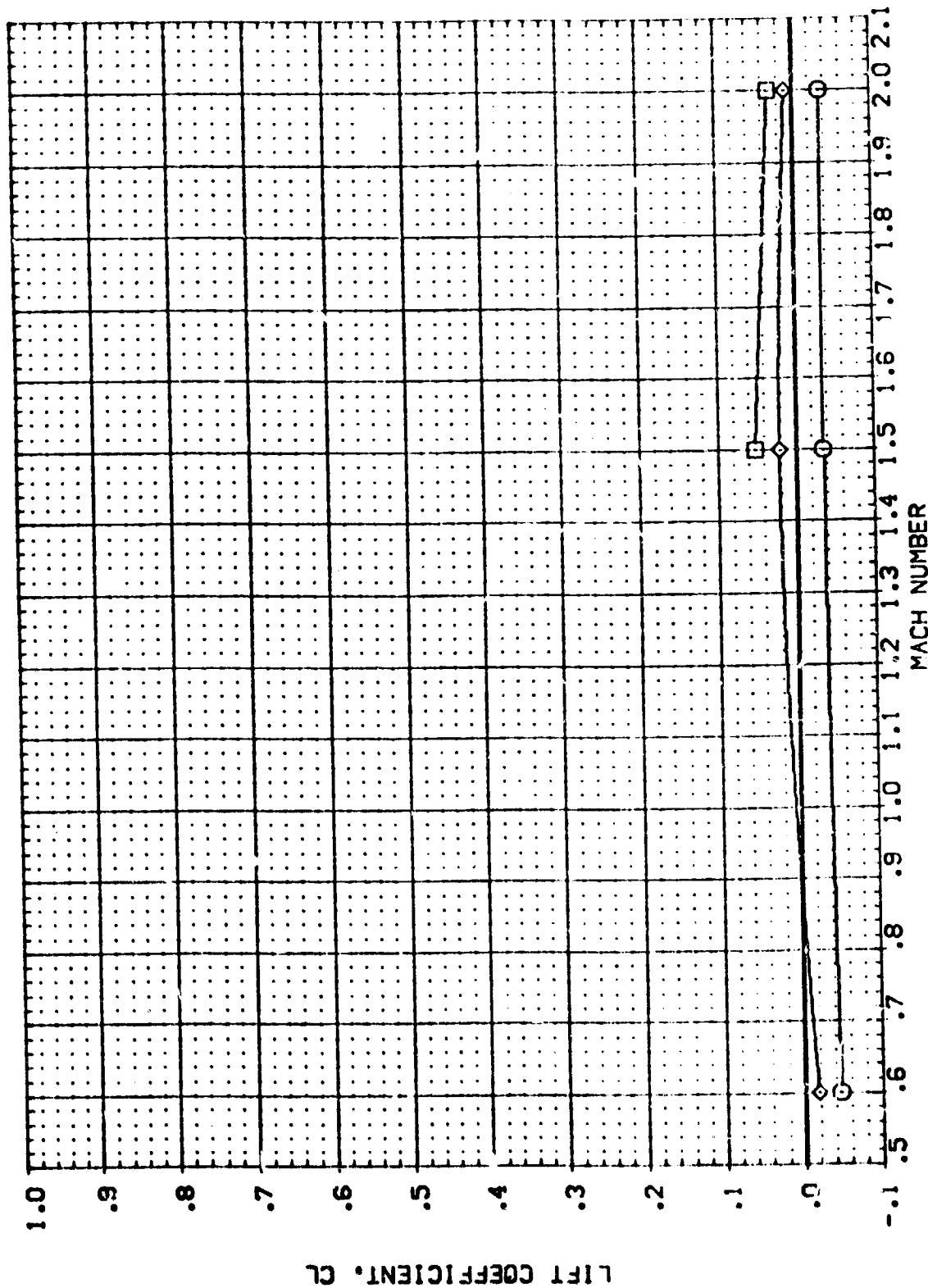


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

CALPHA = .00

DATA SET SYMBL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[081001]	AVES 65-735 CM43 810 CS 07 K3 F4	-14.200	.000	.000	.000	SREF 2650.0000 SQ.FT.
[081002]	AVES 65-735 CM43 810 CS 07 K3 F4	-14.200	.000	.000	.000	LREF 474.8000 IN.
[081004]	AVES 65-735 CM43 810 CS 07 K3 F4	-14.200	.000	.000	.000	BREF 936.6800 IN.
						VMPP 1076.4800 IN.
						VMPP .0000 IN.
						VMPP 400.0000 IN.
						SCALE .0150 SCALE

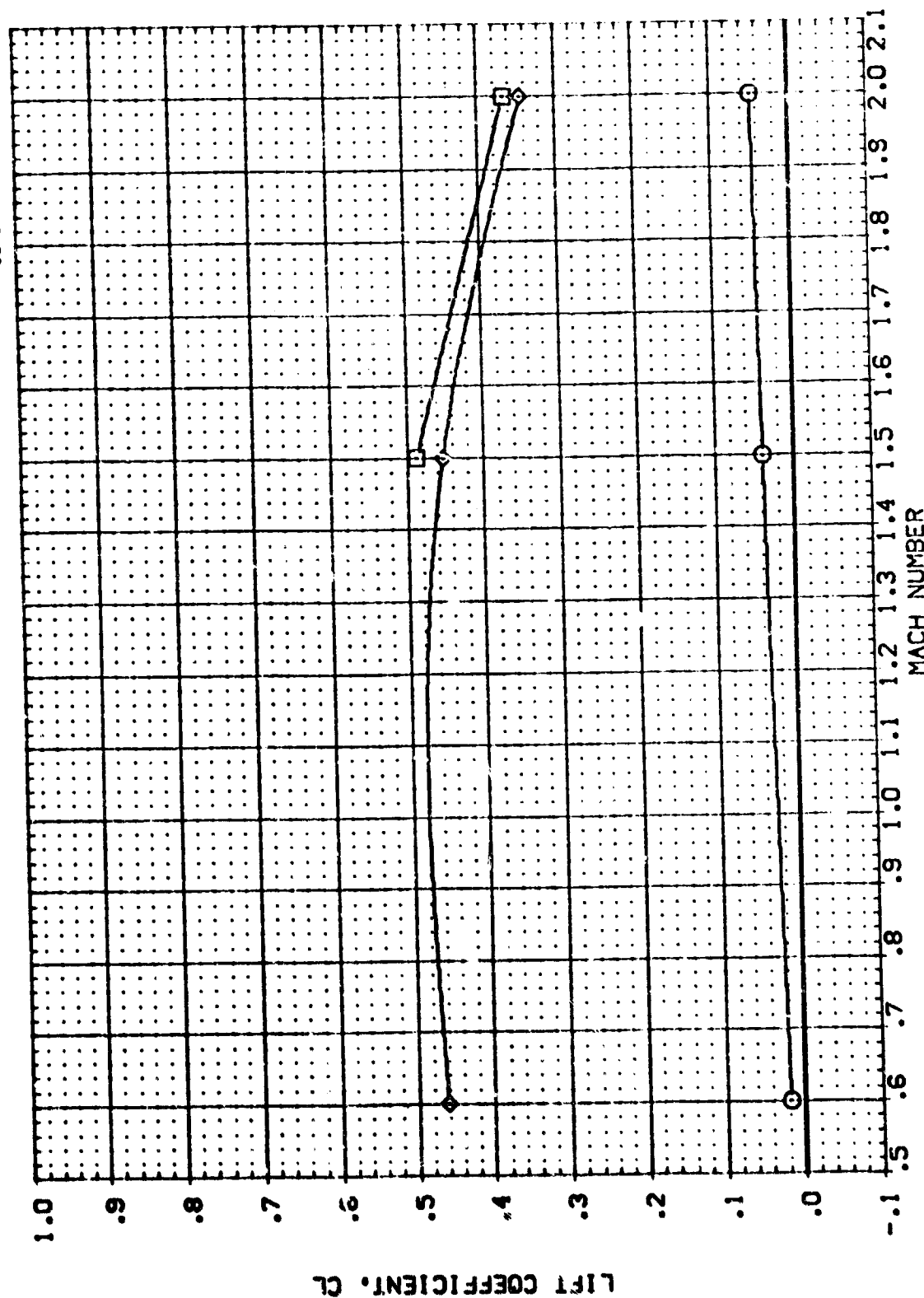


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPODBK	RUDDER	REFERENCE INFORMATION
(DBT001)	AVES 66-706 CA43 B10 C5 D7 MG F4	-14.200	.000	54.900	.000	STEF 2690.0000 SQ.FT.
(DBT002)	AVES 66-706 CA43 B10 C5 D7 MG F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(DBT004)	AVES 66-706 CA43 B10 C5 D7 MG F4	-14.200	.000	54.900	.000	BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

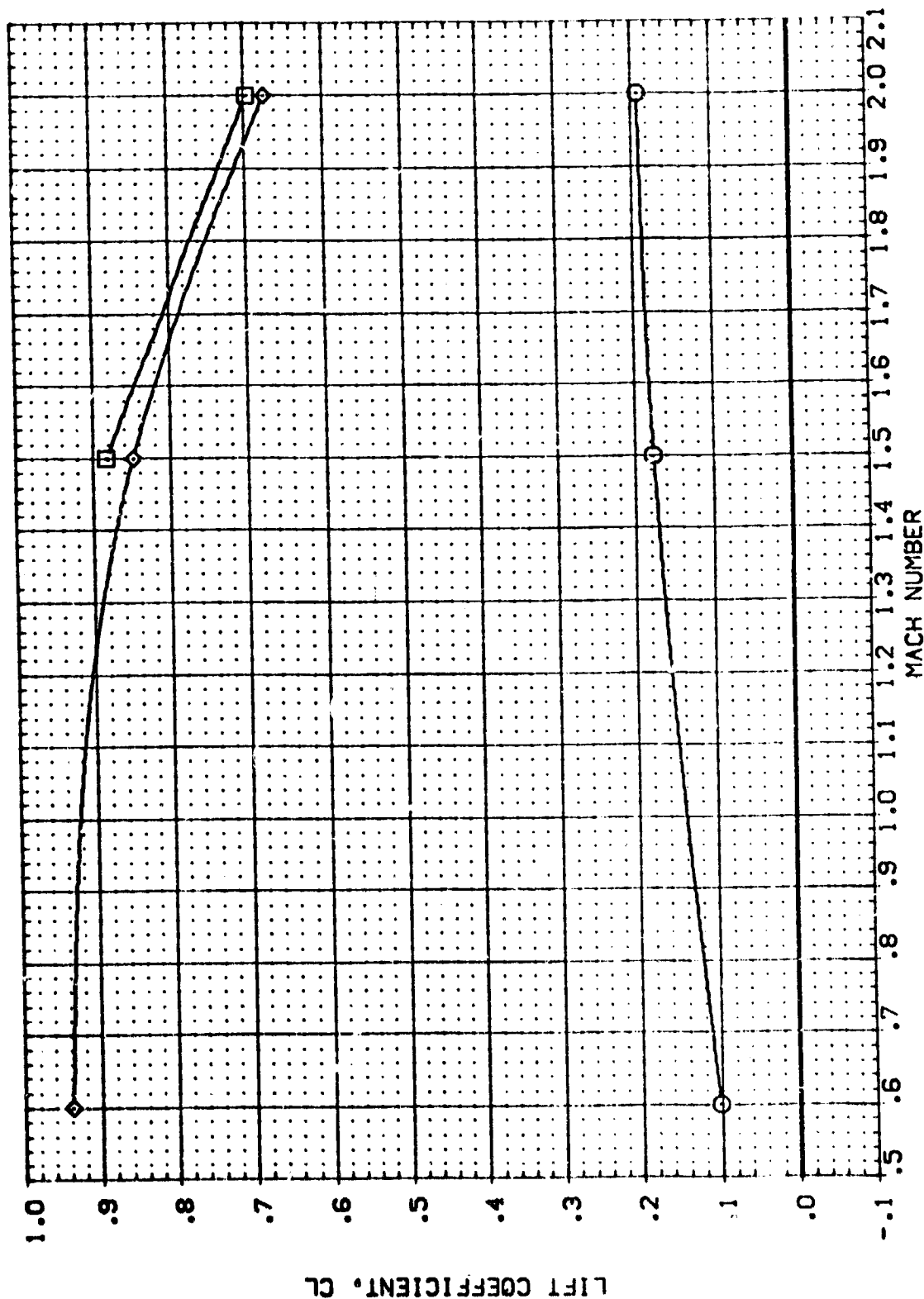


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(DBT001)	AVES 66-706 2M43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(DBT002)	AVES 66-706 2M43 B10 CS D7 M3 F4 V87E18	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(DBT004)	AVES 66-706 2M43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	.000	54.900	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

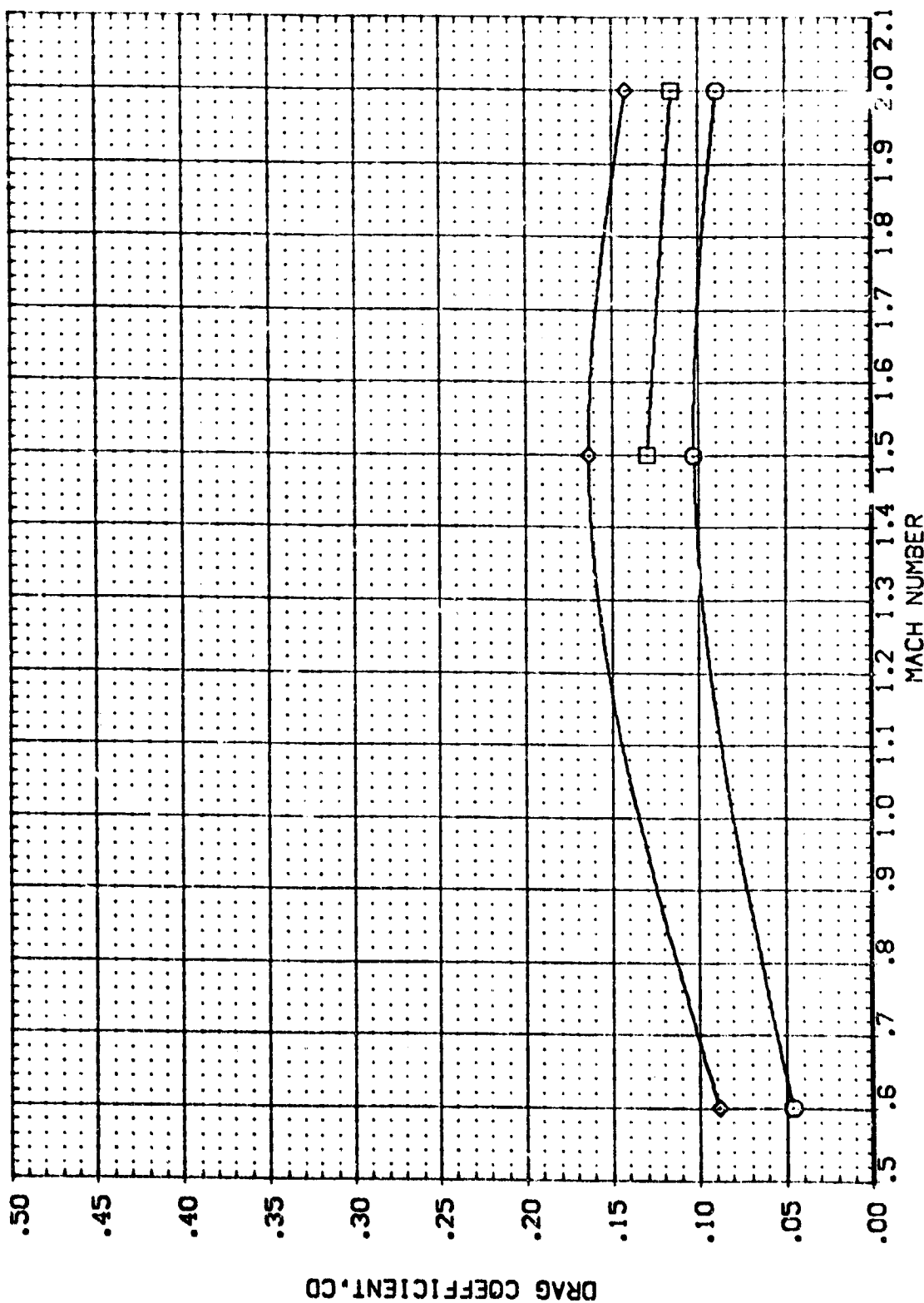


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(α) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[381001]	Q	AVES 65-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[381002]	Q	AVES 65-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
[381004]	Q	AVES 65-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF 936.6800 IN.
							XPRP 1076.4800 IN.
							YPRP .0000 IN.
							ZPRP 400.0000 IN.
							SCALE .0150

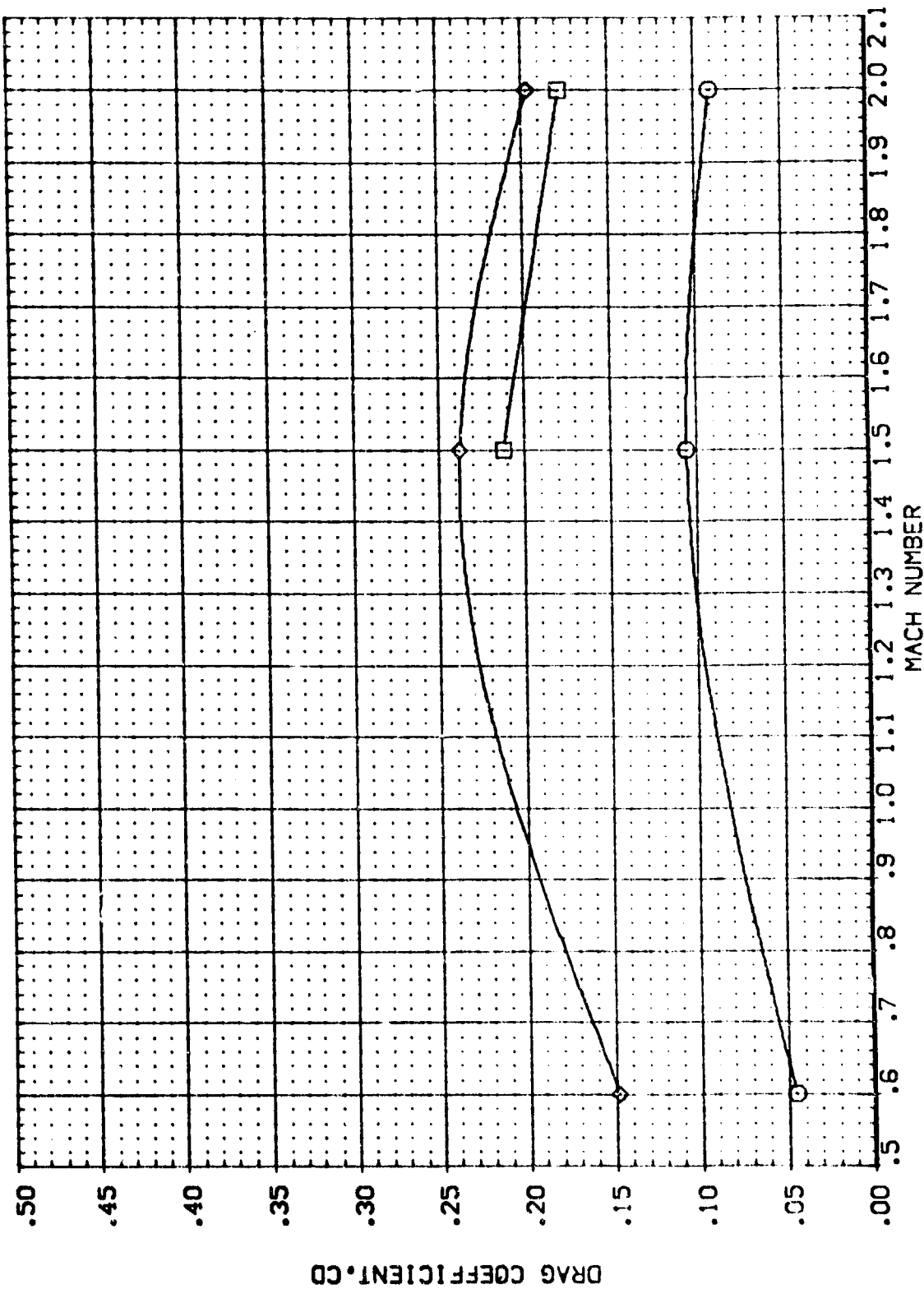


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(DBT001)	AVES 68-706 CM43 B10 CS D7 M3 F4	-14.200	.000			SREF	2690.0000 SQ.FT.
(DBT002)	AVES 68-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(DBT004)	AVES 68-706 CM43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF	936.6900 IN.
						XPRP	1076.4800 IN.
						YPRP	400.0000 IN.
						ZPRP	400.0000 IN.
						SCALE	.0150

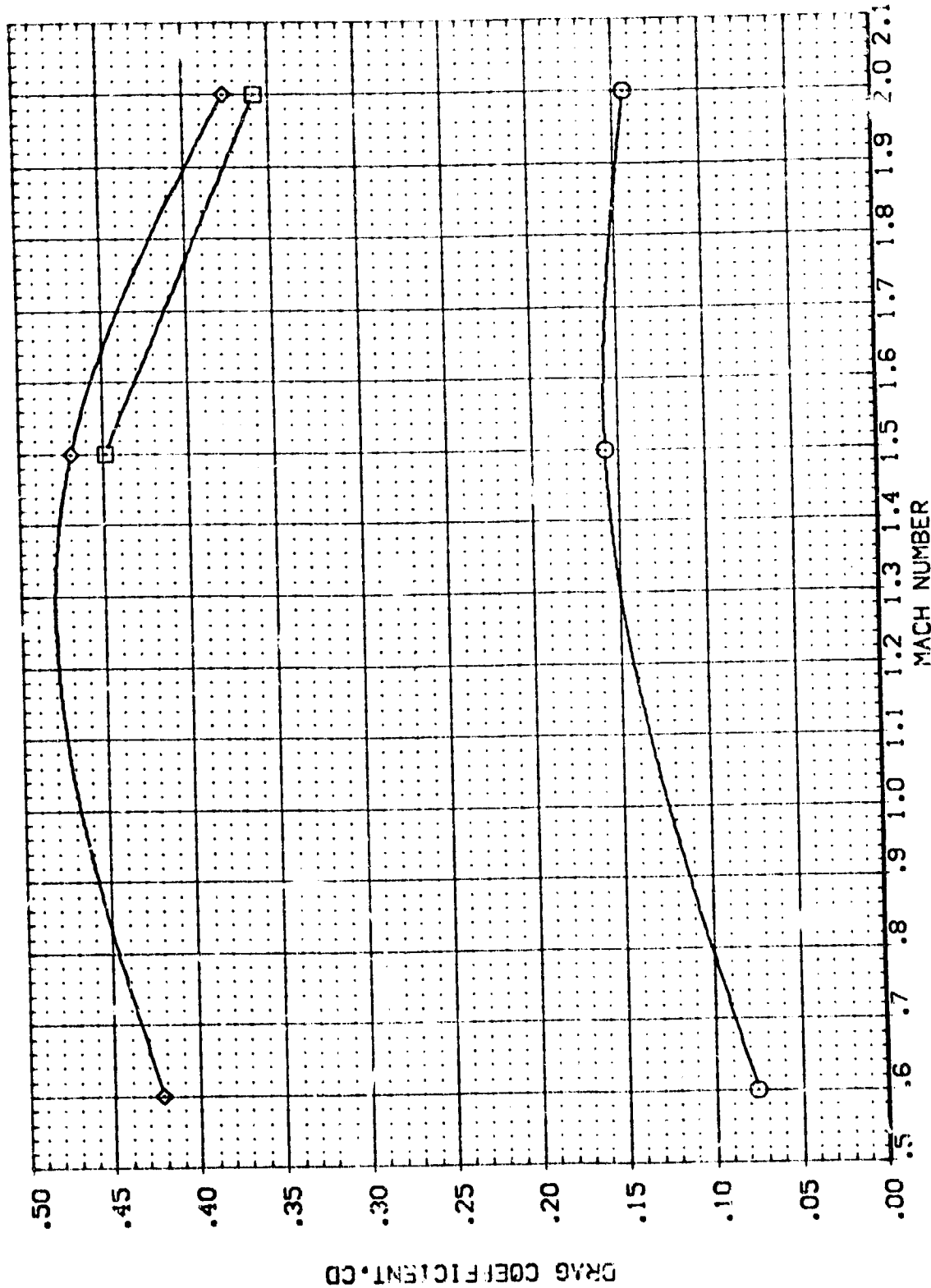


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(CD)ALPHA = 20.00

DAT. SET SYMBOL CONFIGURATION DESCRIPTION
 (DB1001) } AMES 66-706 0A43 B10 CS 07 H3 F4
 (DB1002) } AMES 66-706 0A43 B10 CS 07 H3 F4
 (DB1004) } AMES 66-706 0A43 B10 CS 07 H3 F4

BOOFLP ELEVON SPOBRK RUDDER
 -14.200 .000 54.900 .000
 -14.200 .000 54.900 .000

REFERENCE INFORMATION
 SPREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150 SCALE

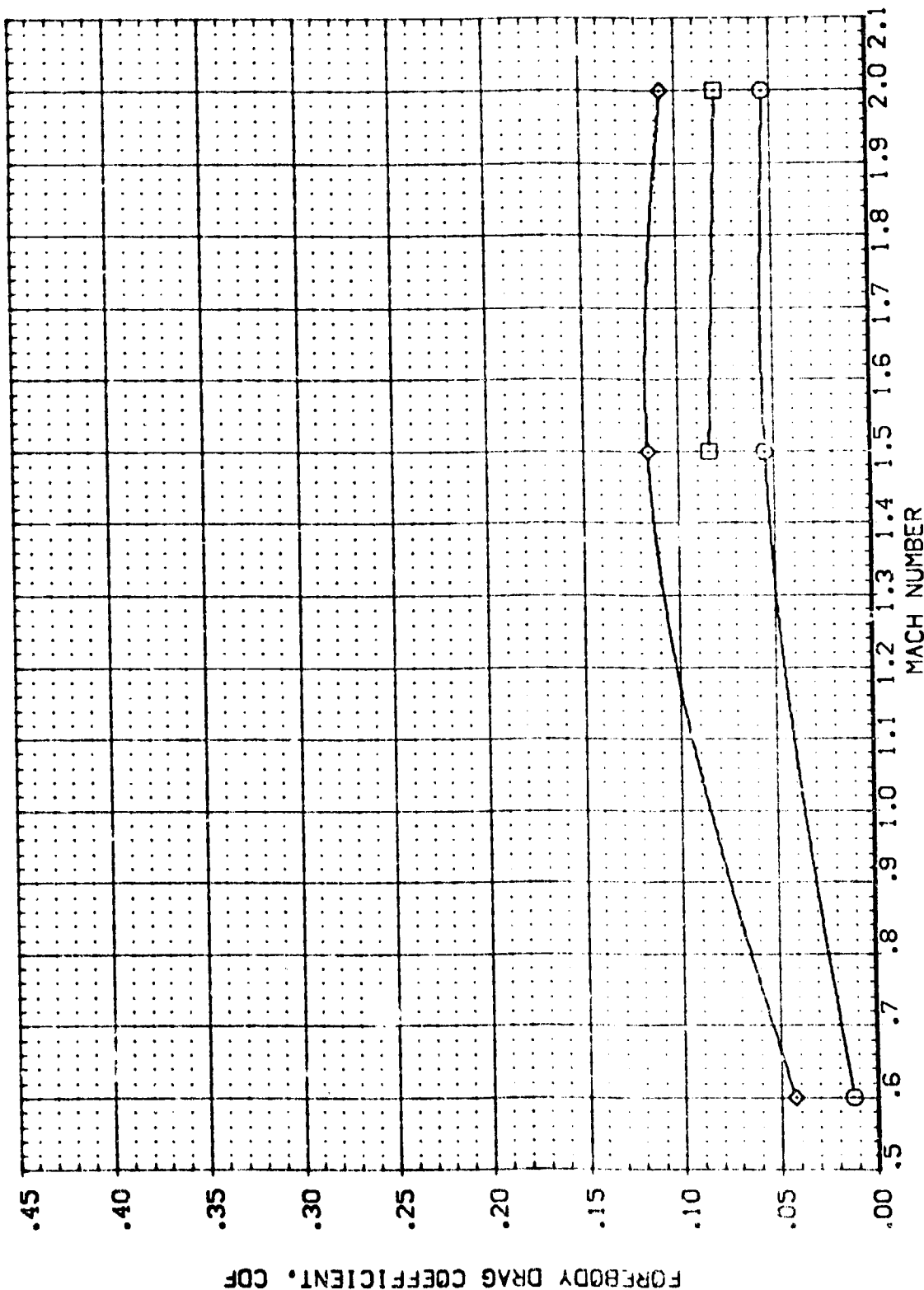


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(α) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(DBT001)	AVES 66-706 0A13 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(DBT002)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(DBT004)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

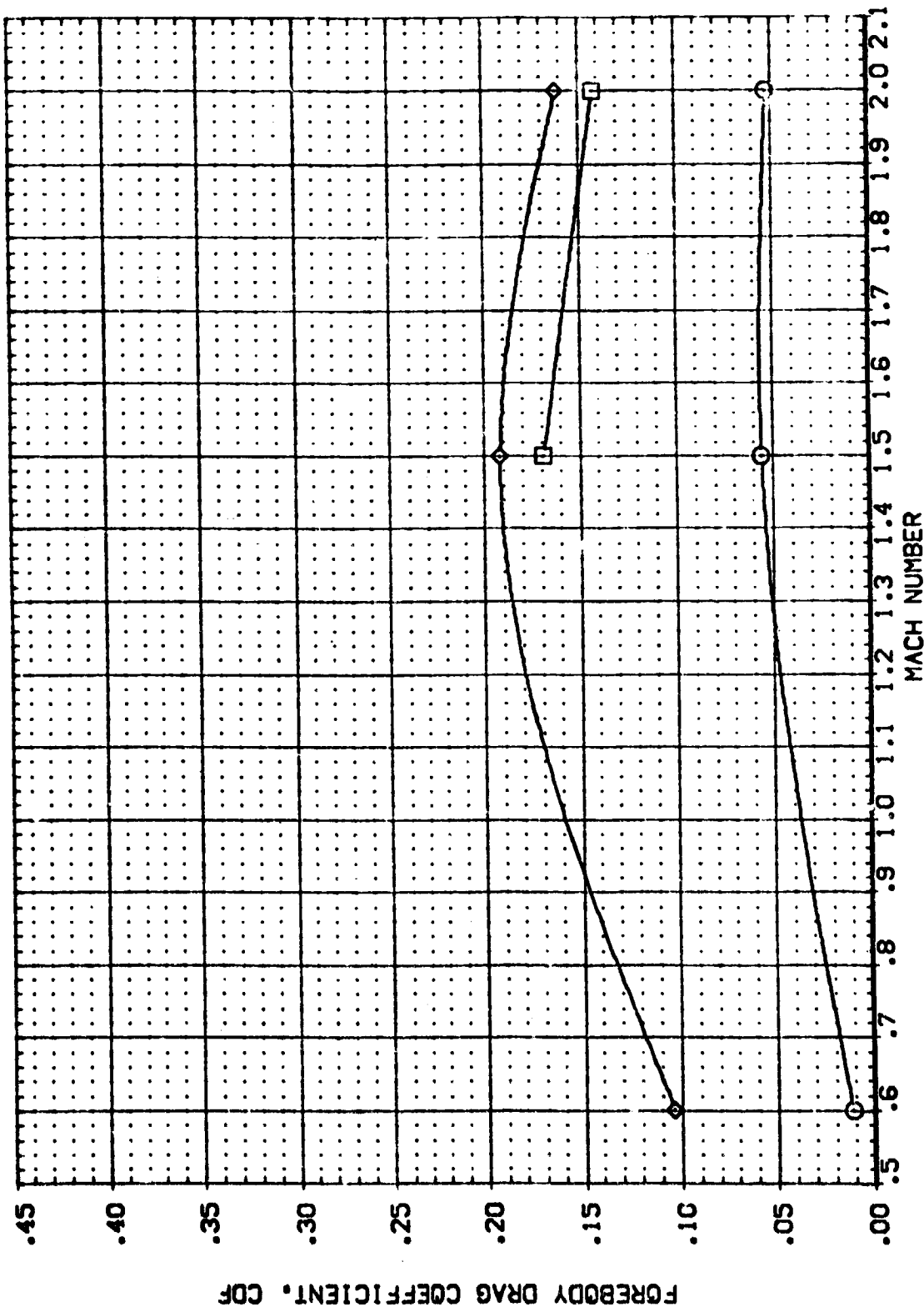


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOONK	RUDDER	REFERENCE INFORMATION	
{DBT001}	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200				SREF	2630.0000
{DBT002}	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF	474.8000
{DBT004}	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	BREF	938.8000
						XREF	1076.4800
						YREF	.0000
						ZREF	100.0000
						SCALE	.0150
							90.FT.

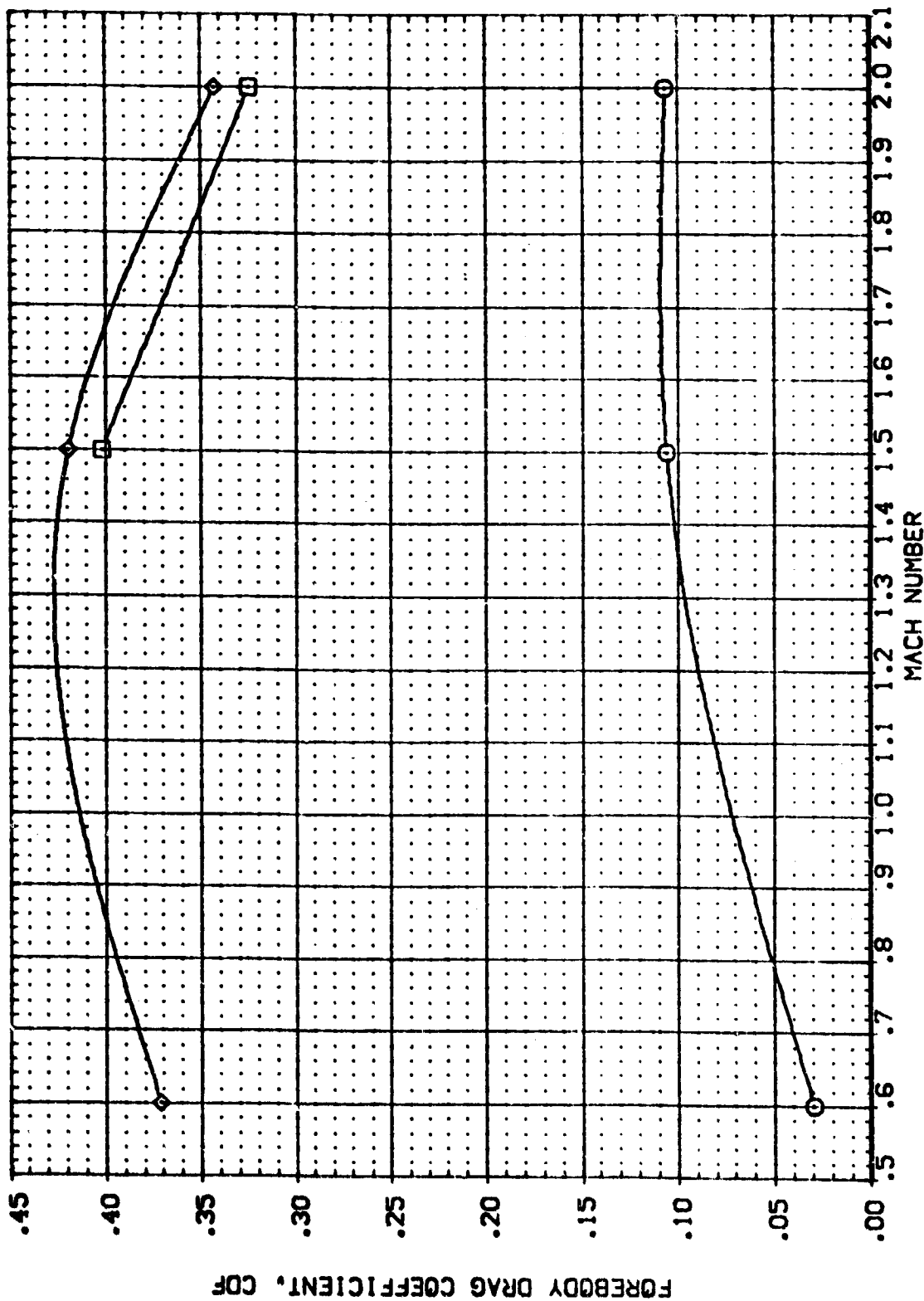


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(DBT001)	AVES 66-706 CM43 B10 CS C7 M3 F4	-14.200	.000	.000	.000	SREF	2630.0000
(DBT002)	AVES 66-706 CM43 B10 CS C7 M3 F4	-14.200	.000	.000	.000	LREF	474.8000
(DBT004)	AVES 66-706 CM43 B10 CS C7 M3 F4	-14.200	.000	.000	.000	BREF	936.6800
						XMRP	1076.4800
						YMRP	.0000
						ZMRP	.0000
						SCALE	400.0000
							.0130
							SCALE

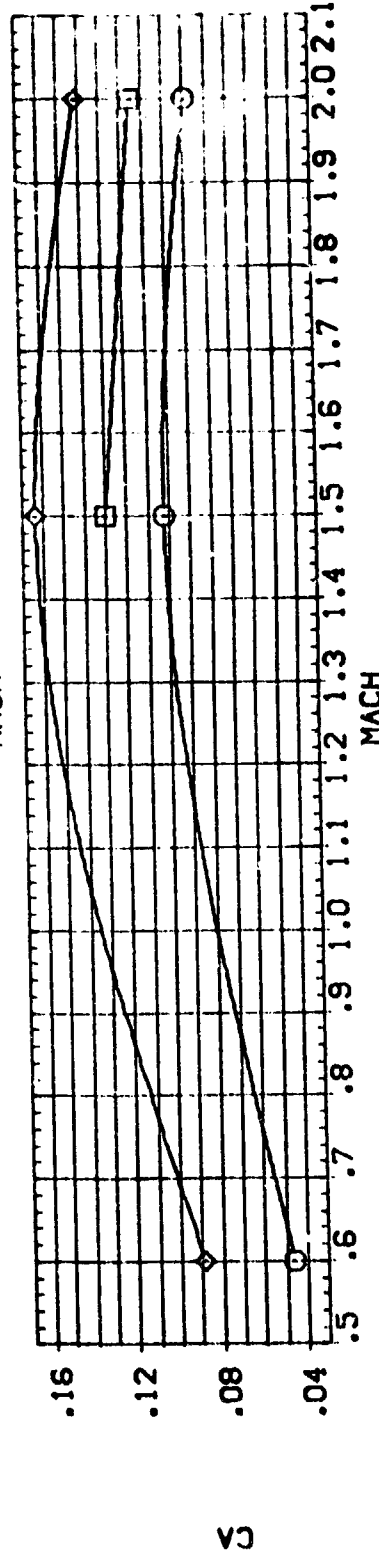
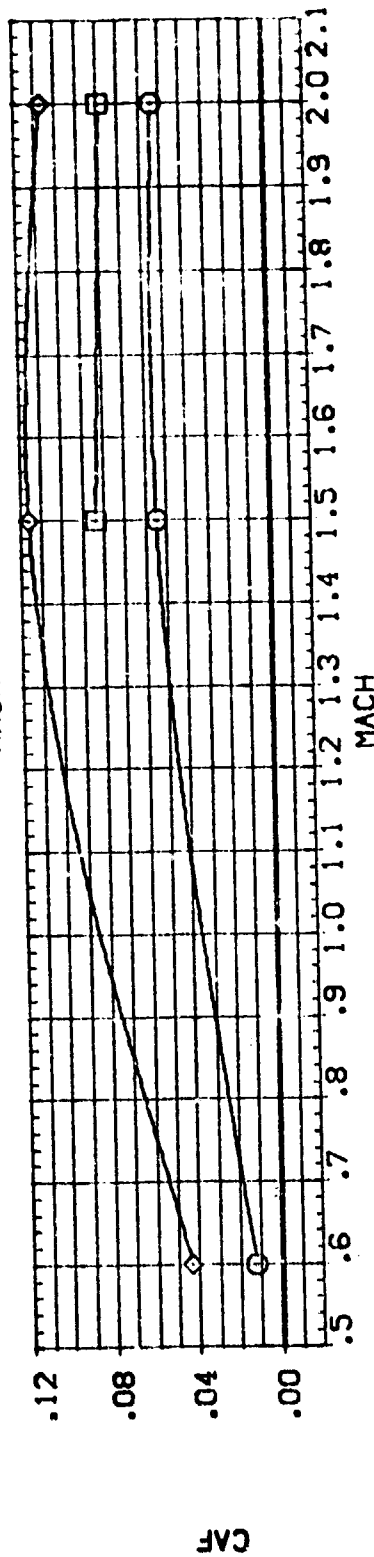
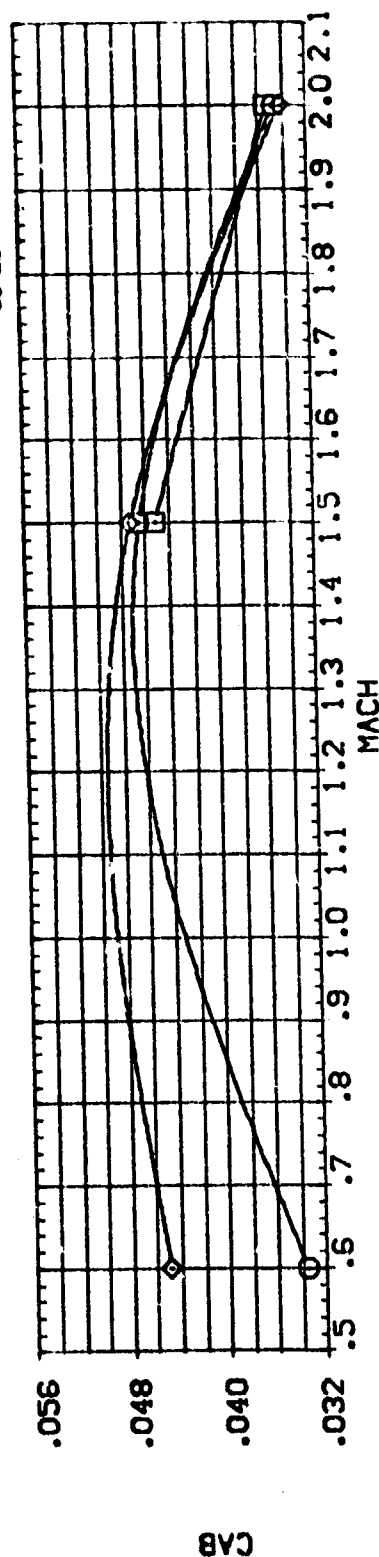


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(α)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOZ L.P.	ELEVATION	SPIN	RUDDER	REFERENCE INFORMATION
(DBT001)	AVES 65-705 0M43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	REF 2880.0000 50. FT.
(DBT002)	AVES 65-705 0M43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	LREF 474.0000 IN.
(DBT004)	AVES 65-705 0M43 B10 CS D7 M3 F4	-14.200	.000	.000	.000	REF 828.0000 IN.
						REF 1076.0000 IN.
						REF 400.0000 IN.
						SCALE .0150

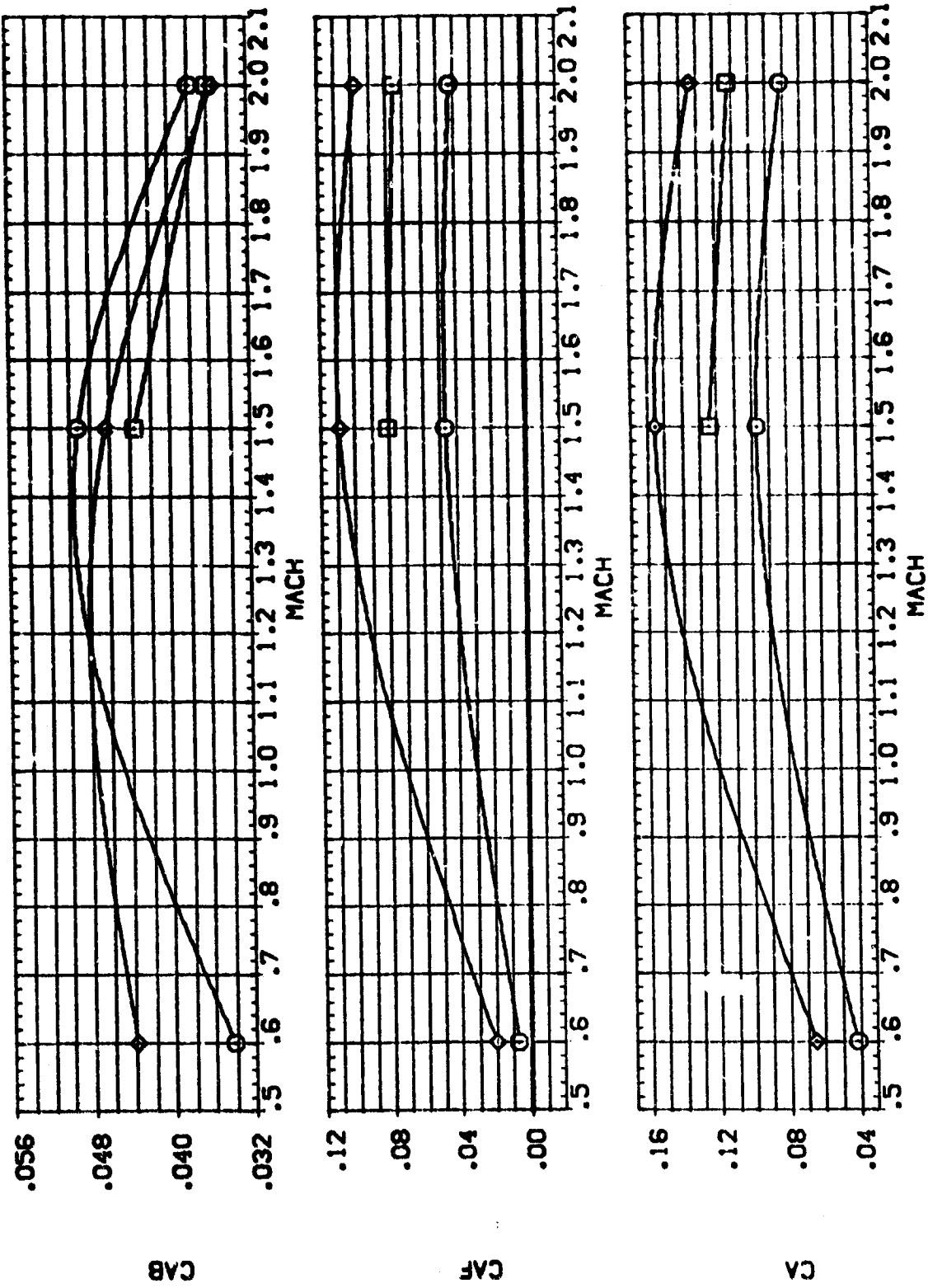


FIG. 4 LONGITUDINAL COMPONENT BUILDUP
(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(DBT001)	AVES 66-706 0443 B10 CS D7 M3 F4	-14.200	.000	54.800	.000	SREF 2080.0000 SQ.FT.
(DBT002)	AVES 66-706 0443 B10 CS D7 M3 F4	-14.200	.000	54.800	.000	LSREF 474.8000 IN.
(DBT004)	AVES 66-706 0443 B10 CS D7 M3 F4	-14.200	.000	54.800	.000	BSREF 925.6800 IN.
						VSREF 1076.4800 IN.
						VSREF 400.0000 IN.
						VSREF 400.0000 IN.
						SCALE .0150

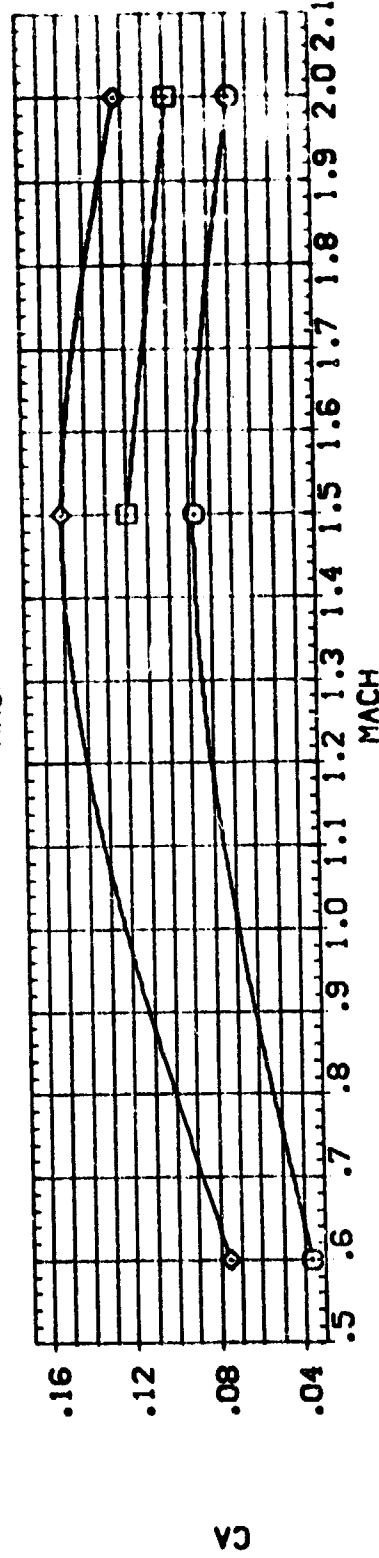
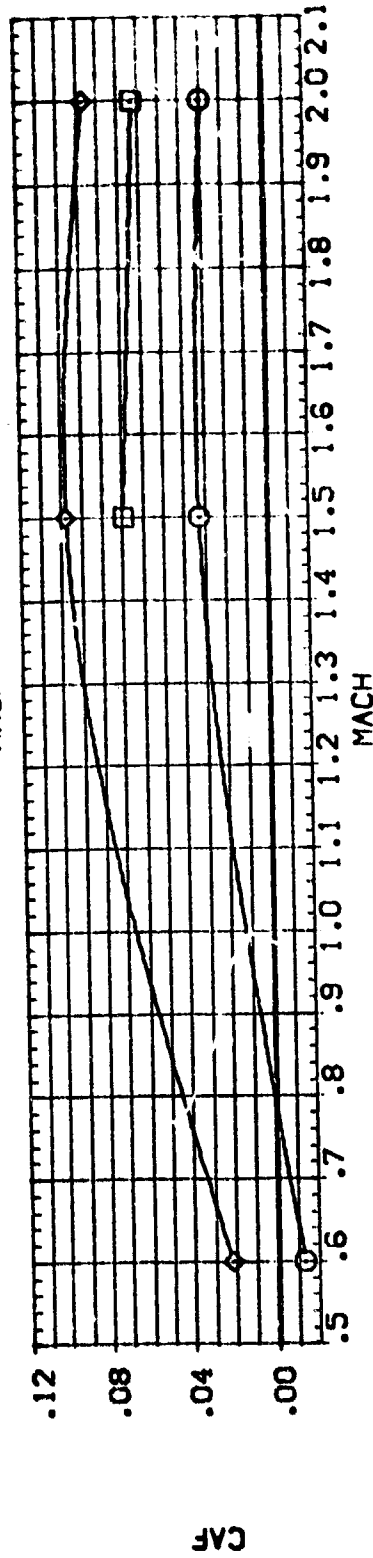
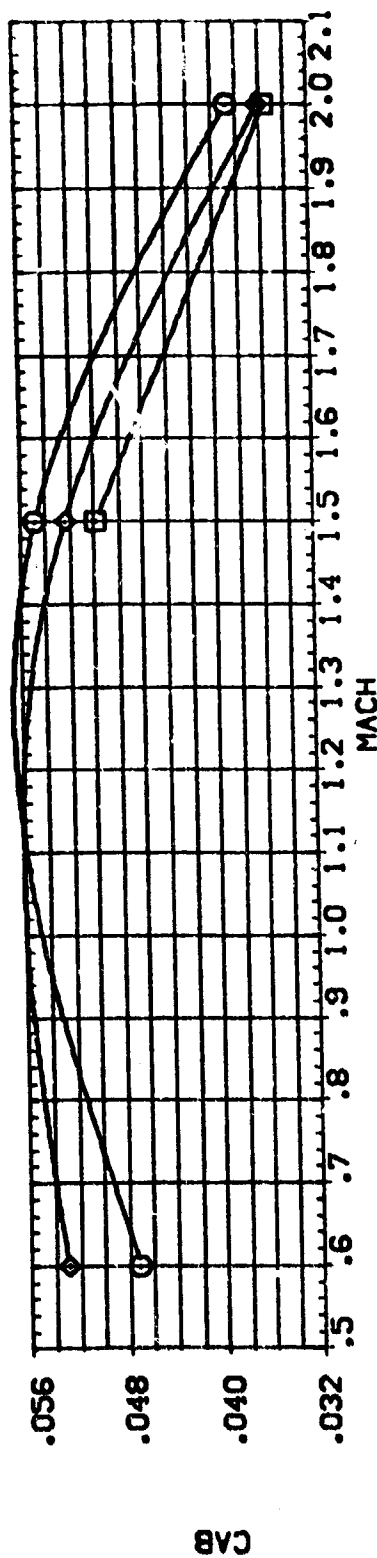


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C) ALPHA = 20.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPURK		FLUDER		REFERENCE INFORMATION	
[DBT001]	AVES 66-706	DM43	B10	CS	D7	H3	F4	-14.200	.000	54.500	.000	REF	2680.0000
[DBT002]	AVES 66-706	DM43	B10	CS	D7	H3	F4	-14.200	.000	54.500	.000	REF	474.8000
[DBT004]	AVES 66-706	DM43	B10	CS	D7	H3	F4	-14.200	.000	54.500	.000	REF	936.8000
												REF	1076.4800
												REF	400.0000
												REF	.0150
												REF	90.0000

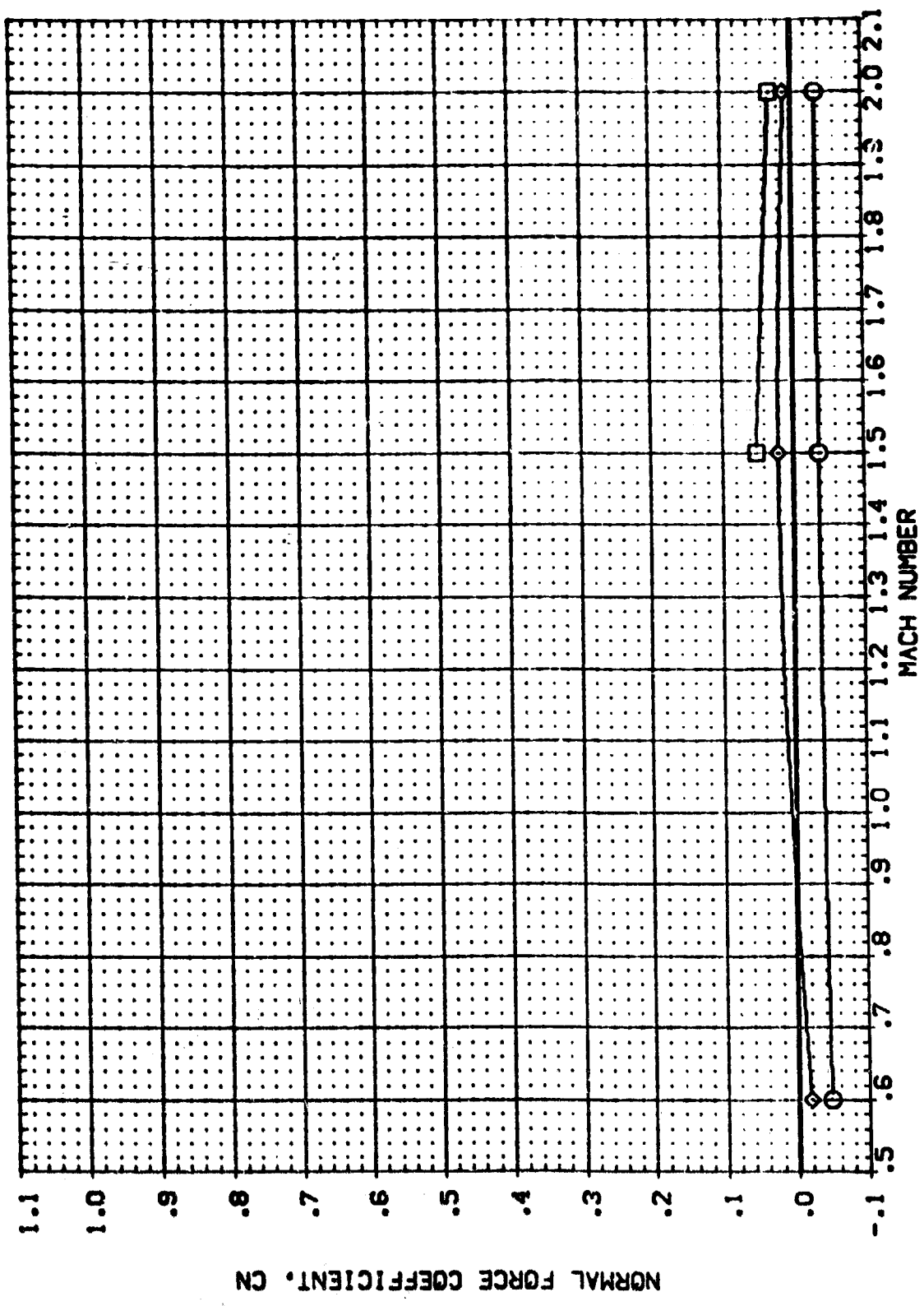


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVATION		SPAN		RUDDER		REFERENCE INFORMATION	
(DB1001)	Q	AVS 66-706	0M3 B10 CS D7 PG F4	-14.200	.000	54.900	.000			SREF	2800.0000
(DB1002)	Q	AVS 66-706	0M3 B10 CS D7 PG F4	-14.200	.000	54.900	.000			LREF	474.8000
(DB1004)	Q	AVS 66-706	0M3 B10 CS D7 PG F4	-14.200	.000	54.900	.000			SREF	928.8000
										XREF	1076.4000
										YREF	0.0000
										ZREF	400.0000
										SCALE	.0150

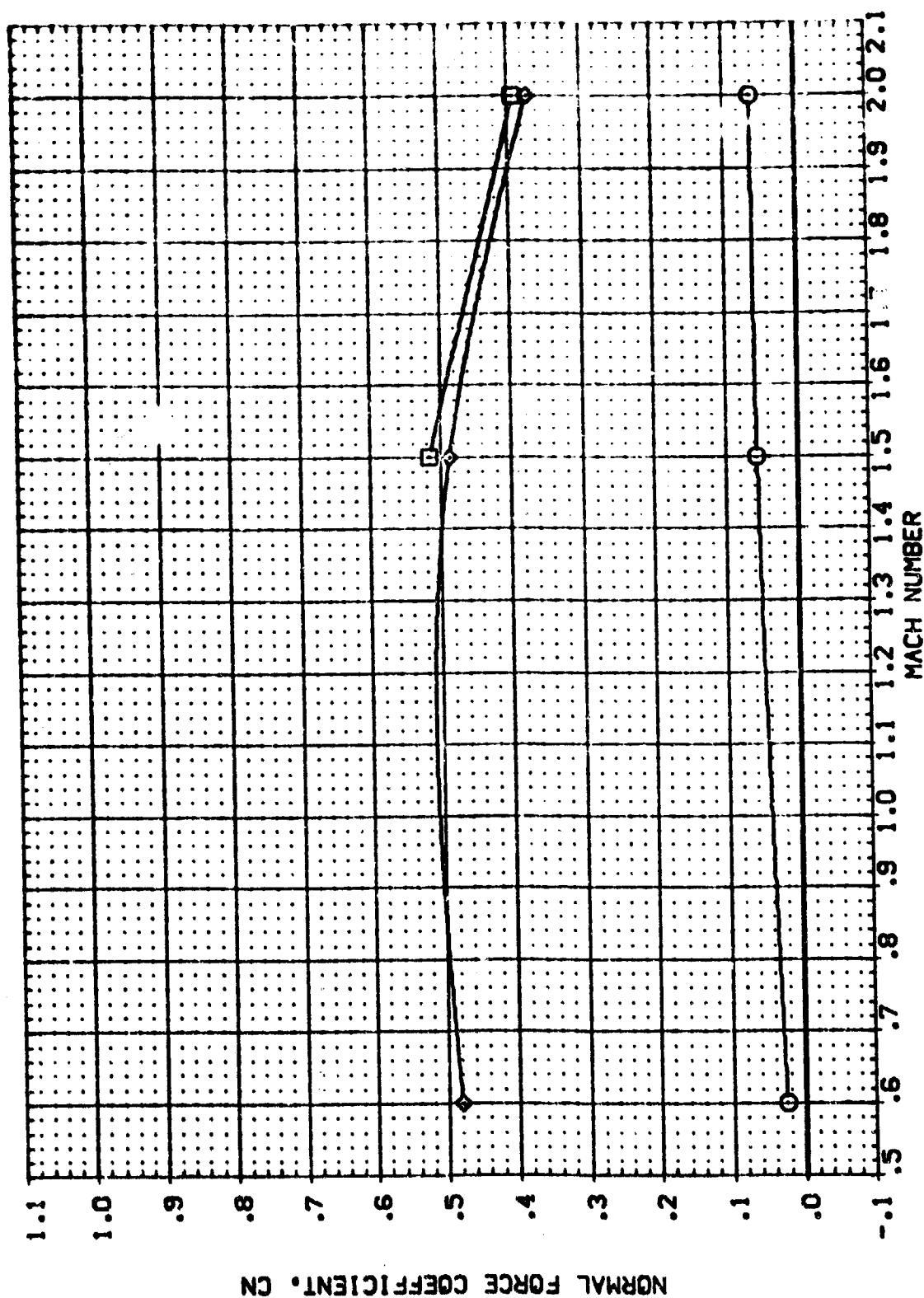


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RDOER	REFERENCE INFORMATION
(DBT001)	AVES 82-706 0M43 810 CS 07 PG F4	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
(DBT002)	AVES 82-706 0M43 810 CS 07 PG F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(DBT004)	AVES 82-706 0M43 810 CS 07 PG F4	-14.200	.000	54.900	.000	SREF 326.6800 IN.
						YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

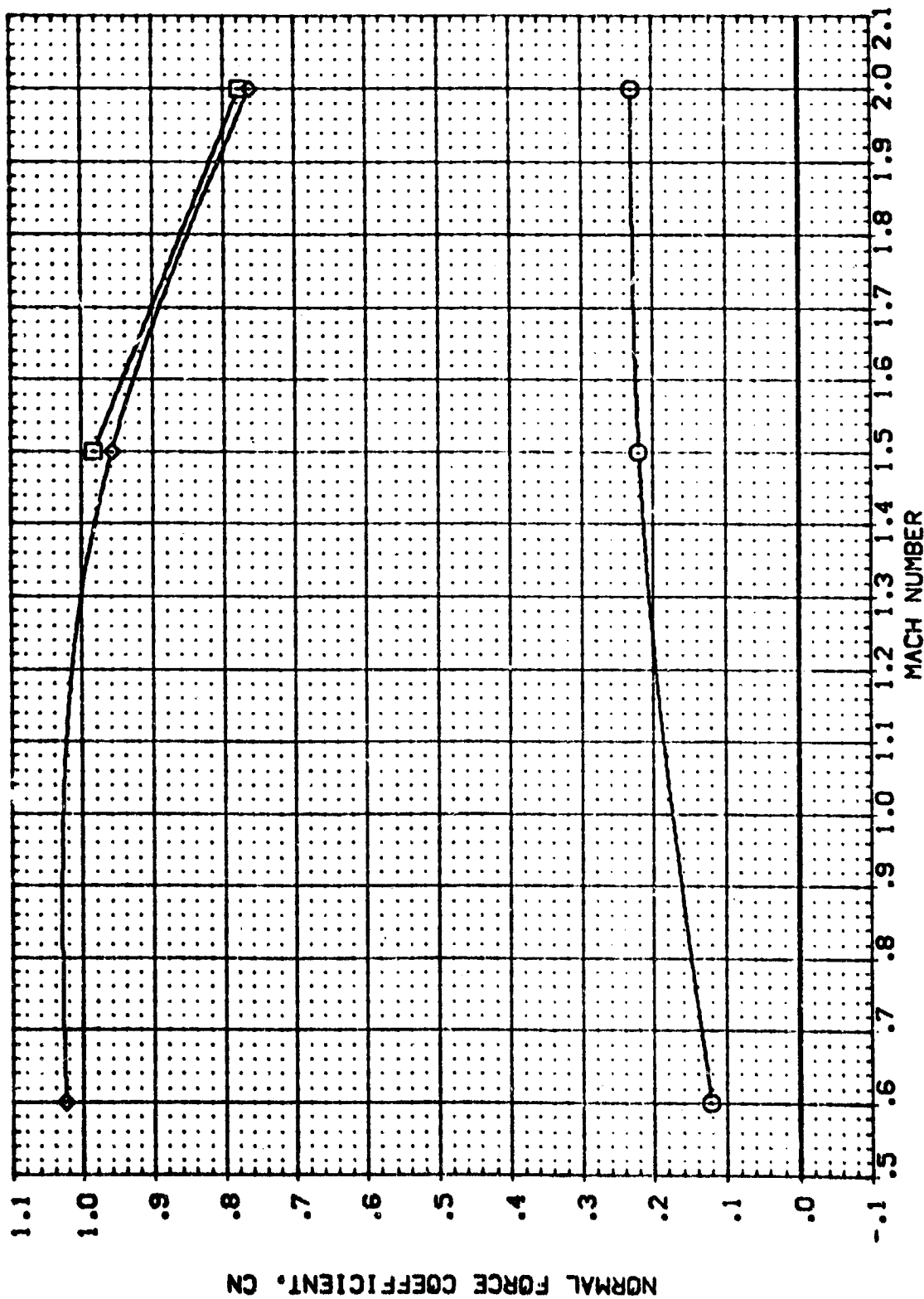


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)ALPHA = 20.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOGFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION			
{DBT001}	AVES 66-706	DM43	B10	CS	D7	H3	F4					-14.200							SREF	2650.0000	50.FT.		
{DBT002}	AVES 66-706	DM43	B10	CS	D7	H3	F4	V87E18				-14.200	.000	54.900	.000				LREF	474.8000	IN.		
{DBT004}	AVES 66-706	DM43	B10	CS	D7	H3	F4	V87E18	VSR5			-14.200	.000	54.900	.000				BREF	936.6800	IN.		
																			YREF	1076.4800	IN.		
																			ZREF	400.0000	IN.		
																			SCALE	.0150	SCALE		

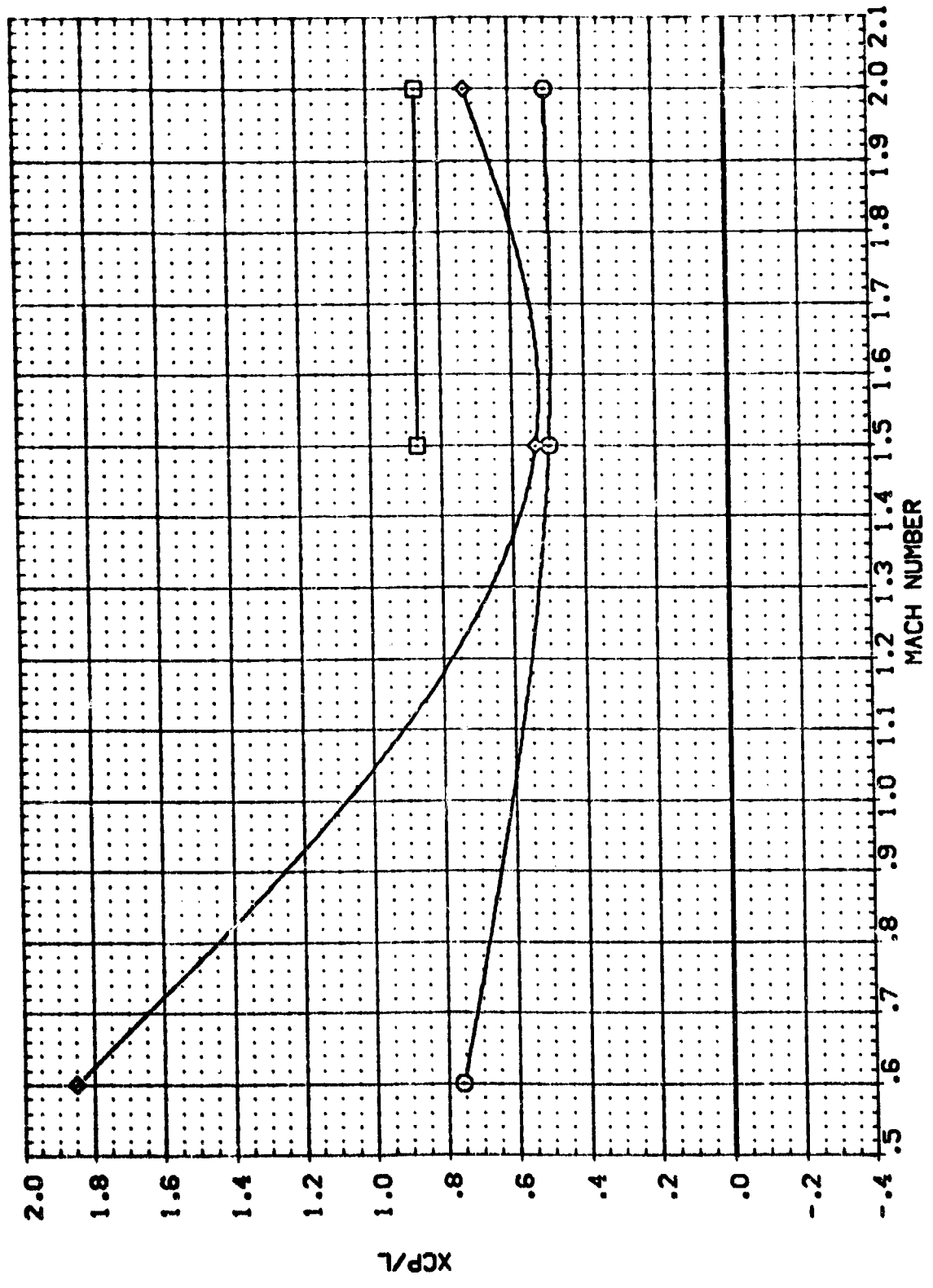


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(AJALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ROD FLIP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(DBT001)	AXES 66-706 QM3 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 90.0000
(DBT002)	AXES 66-706 QM3 B10 CS D7 M3 F4 V87E18	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(DBT004)	AXES 66-706 QM3 B10 CS D7 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	BREF 936.6900 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

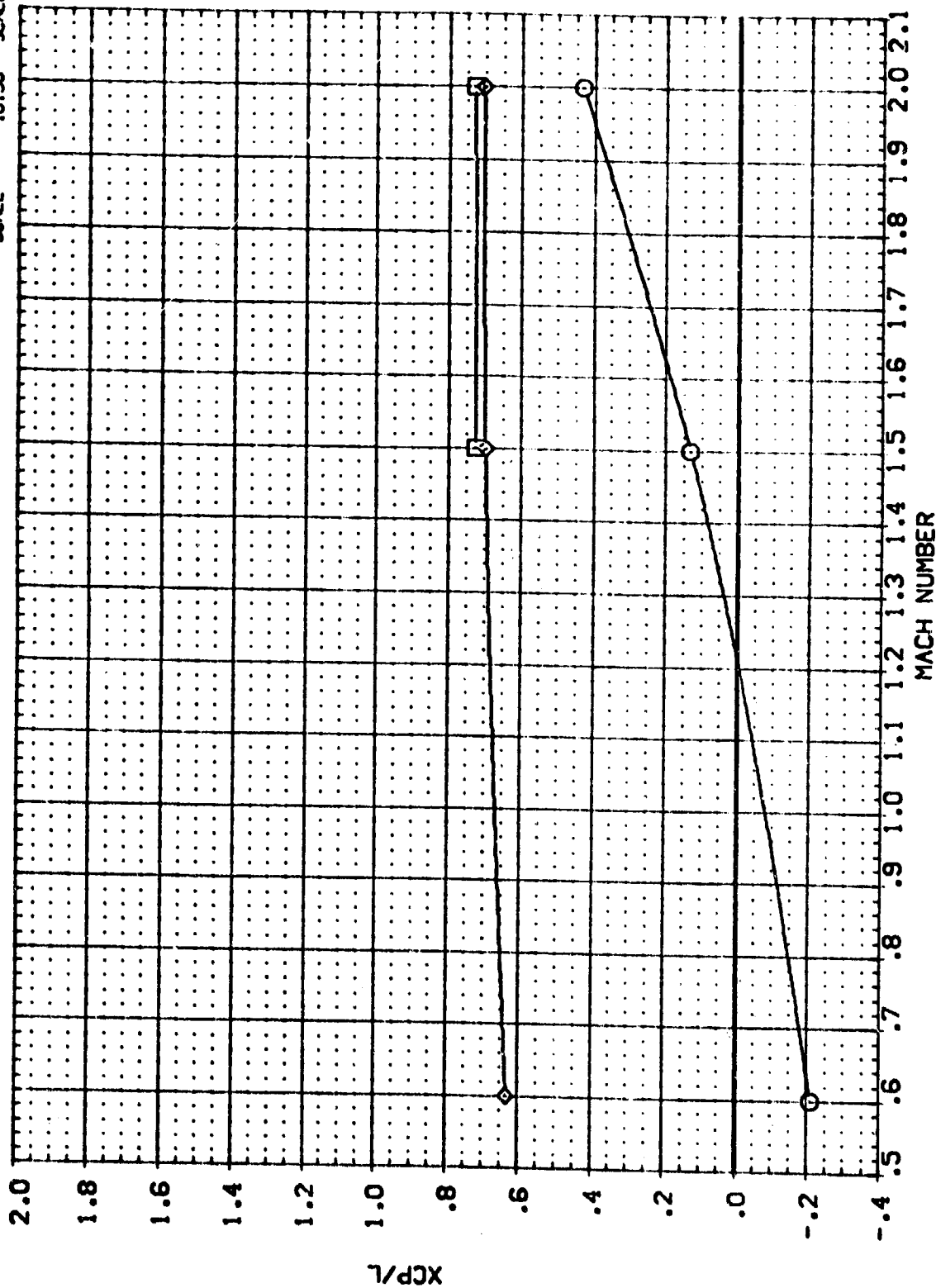


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	LREF 474.8000 IN.
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	BREF 936.6800 IN.
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	YMRP 1076.4800 IN.
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	ZMRP 100.0000 IN.
AVES 66-706 0A43 810 CS D7 F4		-14.200	.000	54.900	.000	SCALE .0150

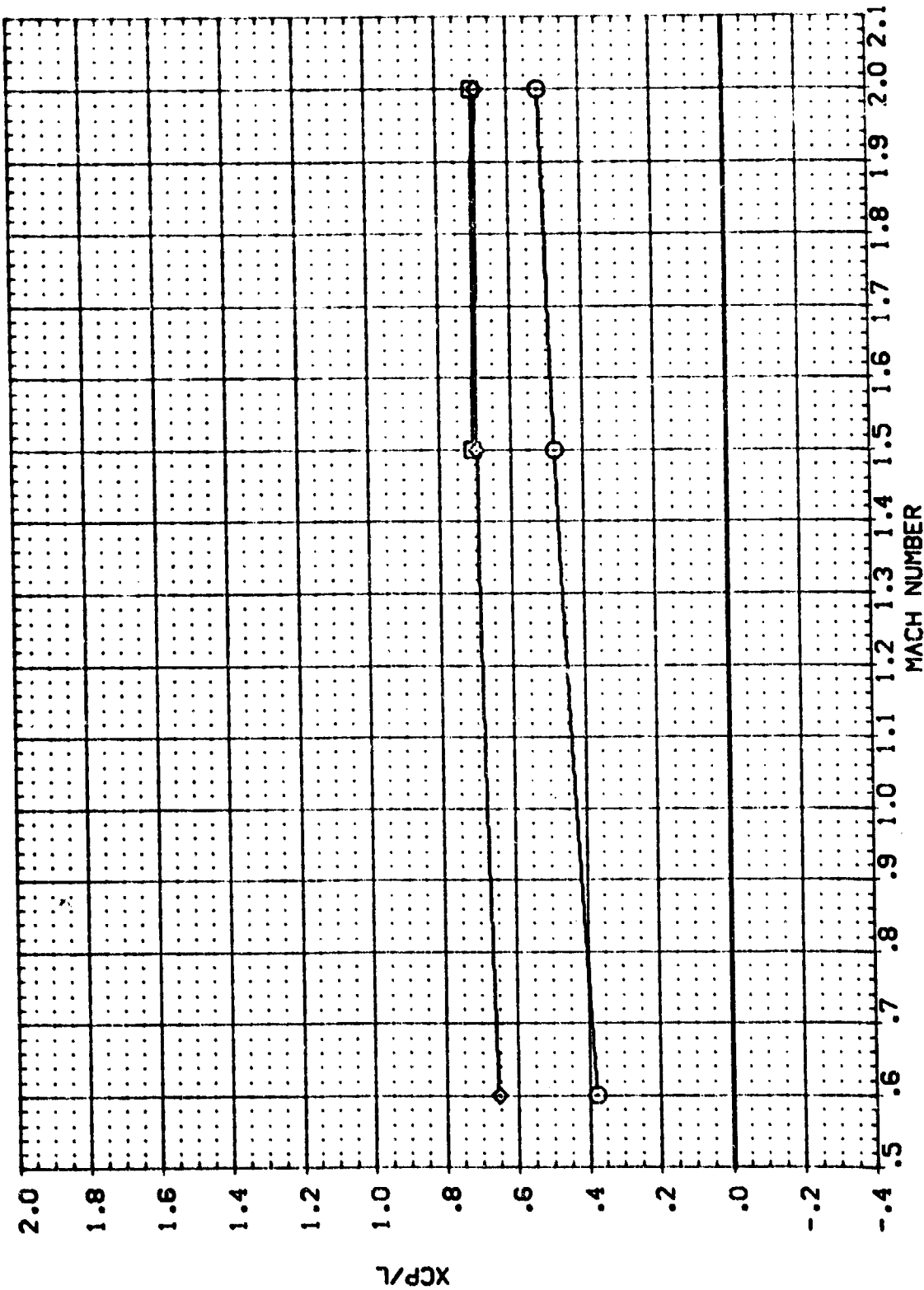


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOFLUP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(DBT001)	AVES 66-706 DA43 B10 CS 07 PG F4	-14.200	.000	.000	.000	SREF	2630.0000 SQ.FT.
(DBT002)	AVES 66-706 DA43 B10 CS 07 PG F4	-14.200	.000	.000	.000	LREF	474.8000 IN.
(DBT004)	AVES 66-706 DA43 B10 CS 07 PG F4	-14.200	.000	.000	.000	BREF	936.6800 IN.
						XPRP	1076.4800 IN.
						YPRP	.0000 IN.
						ZPRP	400.0000 IN.
						SCALE	.0150 SCALE

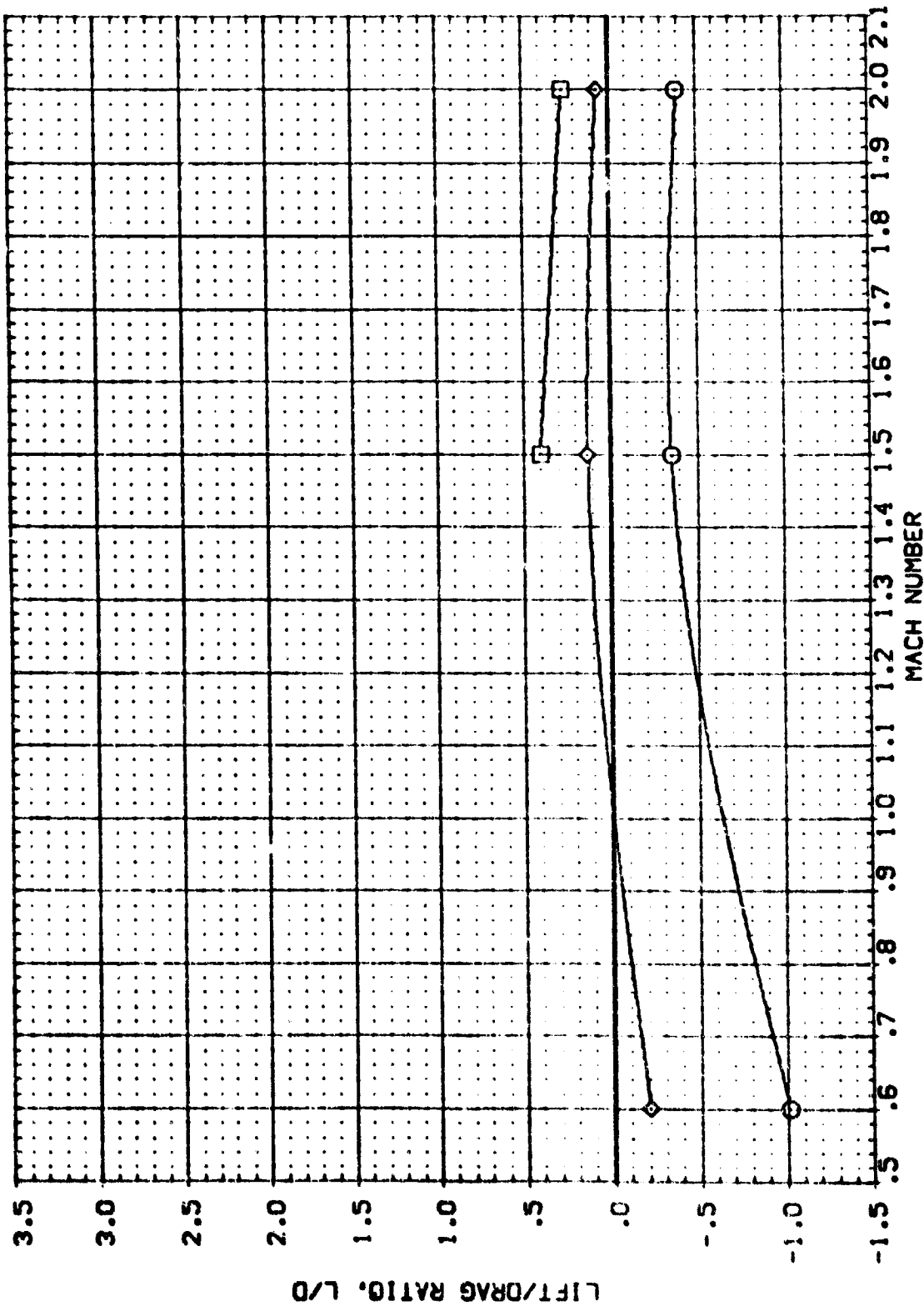


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(α)ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPORBK		RUDDER		REFERENCE INFORMATION	
(DBT001)	APES 66-705	DM43	B10	CS	D7	MG	F4	-14.200	.000	.000	.000	SREF	2690.0000
(DBT002)	APES 66-705	DM43	B10	CS	D7	MG	F4	-14.200	.000	.000	.000	LREF	474.8000
(DBT004)	APES 66-705	DM43	B10	CS	D7	MG	F4	-14.200	.000	.000	.000	BREF	936.6800
												XMRP	1076.4800
												YMRP	.0000
												ZMRP	400.0000
												SCALE	.0150
													SQ.FT.
													IN.
													IN.

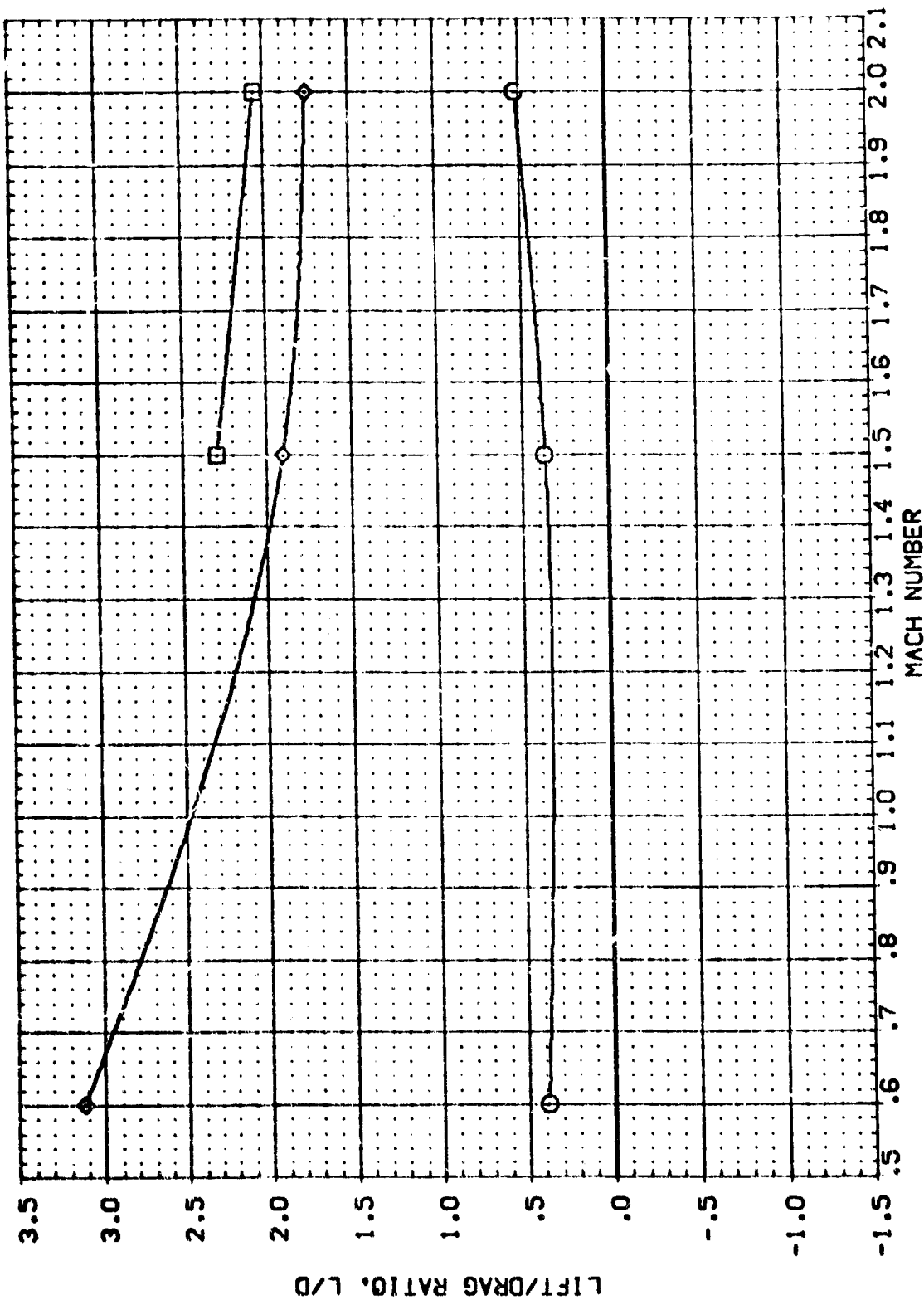


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BODY L/P		ELEVON		SPORON		RUDDER		REFERENCE INFORMATION	
(DBT031)	□	A-ES 66-706 DA13 B10 CS 07	MG F4	-14.200	.000	.000	.000					SREF	2650.0000
(DBT002)	◇	A-ES 66-706 DA17 B10 CS 07	MG F4	-14.200	.000	.000	.000	54.900				LREF	474.8000
(DBT004)	◇	A-ES 66-706 DA13 B10 CS 07	MG F4	-14.200	.000	.000	.000					BREF	936.6800
												YMRP	1076.4800
												ZMRP	400.0000
												SCALE	.0150
													SCALE

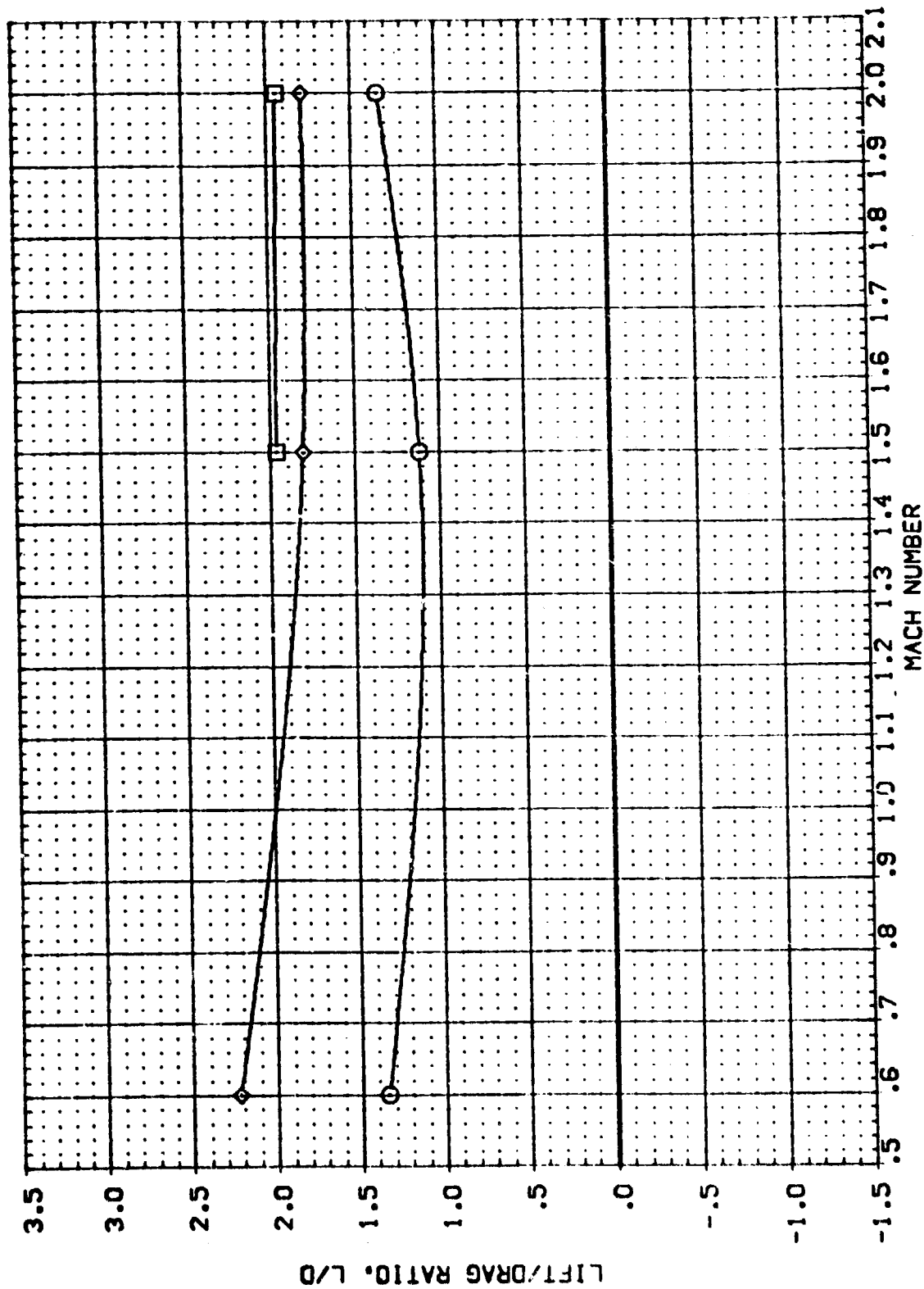


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(CJALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(28'001)	AVES 66-706 0A43 B10 CS 07 PG F4	-14.200	.000	\$4.900	.000	SREF	2630.0000 SO.FT.
(28'002)	AVES 66-706 0A43 B10 CS 07 PG F4	-14.200	.000			LREF	474.8000 IN.
(28'004)	AVES 66-706 0A43 B10 CS 07 PG F4	-14.200	.000			BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	100.0000 IN.
						SCALE	.0150 SCALE

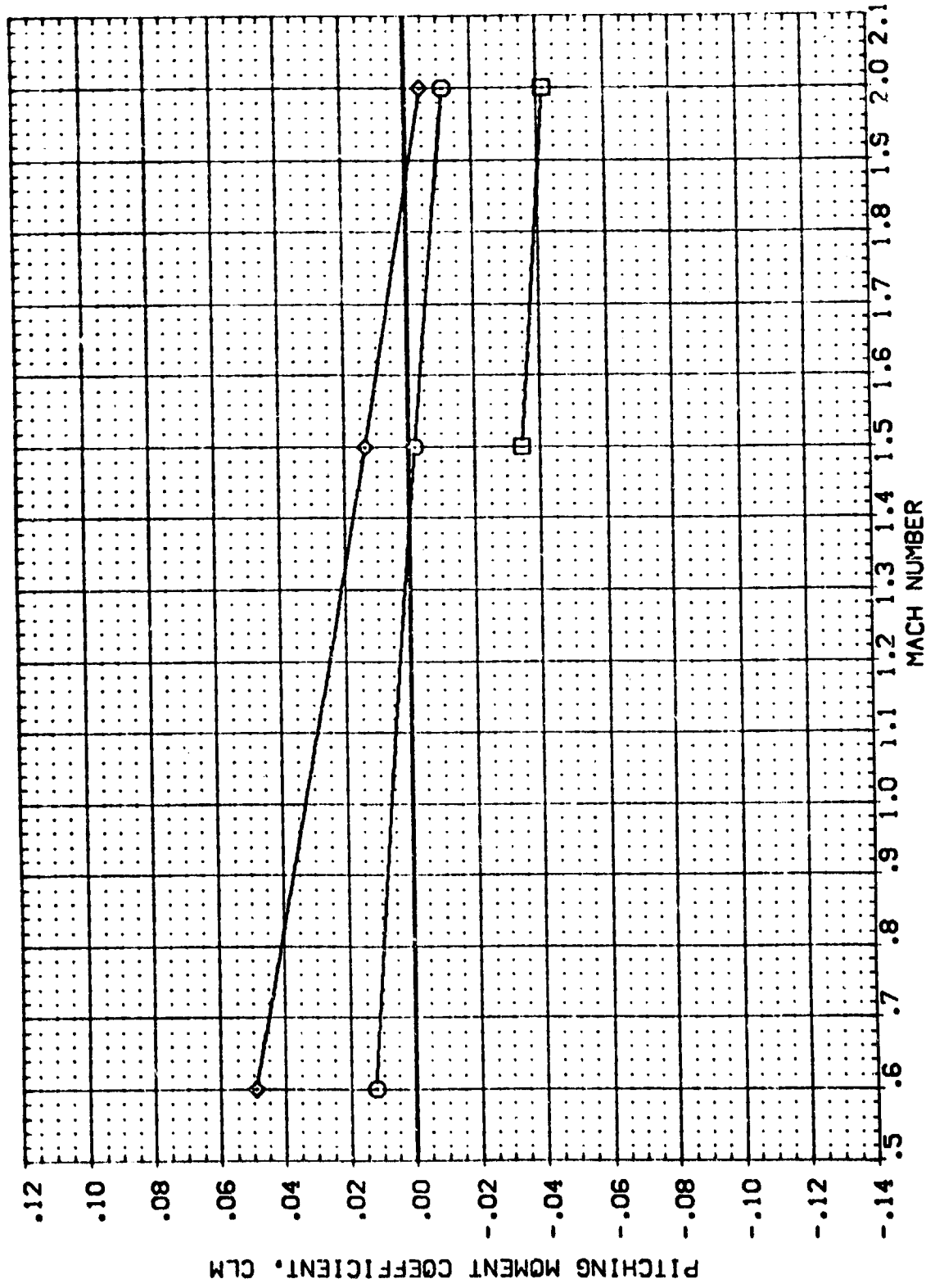


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(A) ALPHA = .00

DATA SET SYMBOL	CONF:GURATION DESCRIPTION	DOOF:LP	ELEVON	SP:OB:RK	R:LOD:R	REFERENCE INFORMATION
(DBT001)	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(DBT002)	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			LREF 474.8000 IN.
(DBT004)	AVES 66-706 DA13 B10 CS D7 M3 F4	-14.200	.000			BREF 936.6900 IN.
						XMRP 1076.4800 IN.
						YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

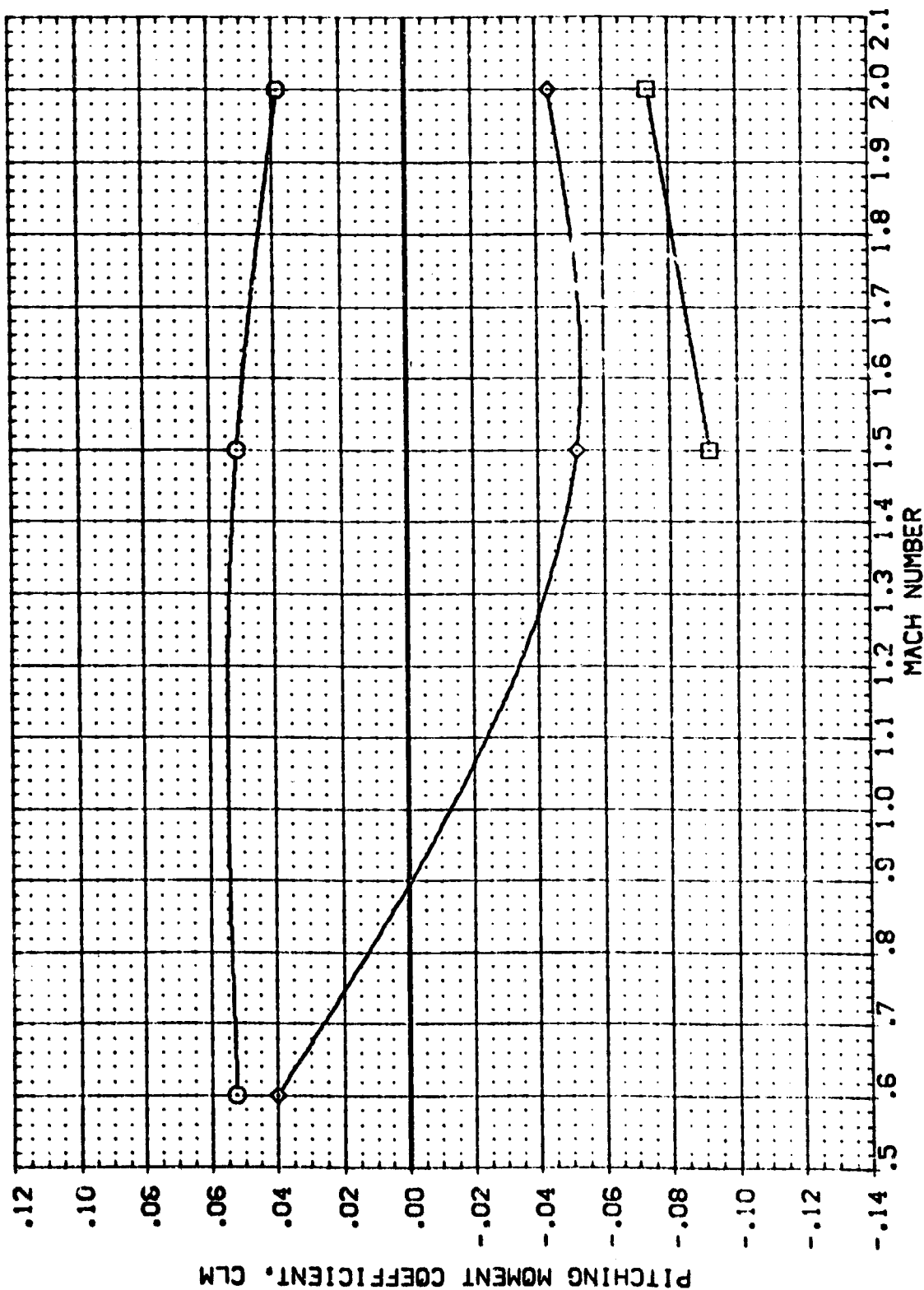


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFIP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(08T001)	AVE 66-706 0413 810 CS D7 M3 F4	-14.200	.000			SREF	2690.0000 SQ.FT.
(08T002)	AVE 66-706 0413 810 CS D7 M3 F4 V87E18	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(08T004)	AVE 66-706 0413 810 CS D7 M3 F4 V87E18 VSR5	-14.200	.000			SREF	936.6800 IN.
						XPRP	1076.4800 IN.
						YPRP	.0000 IN.
						ZPRP	400.0000 IN.
						SCALE	.0150

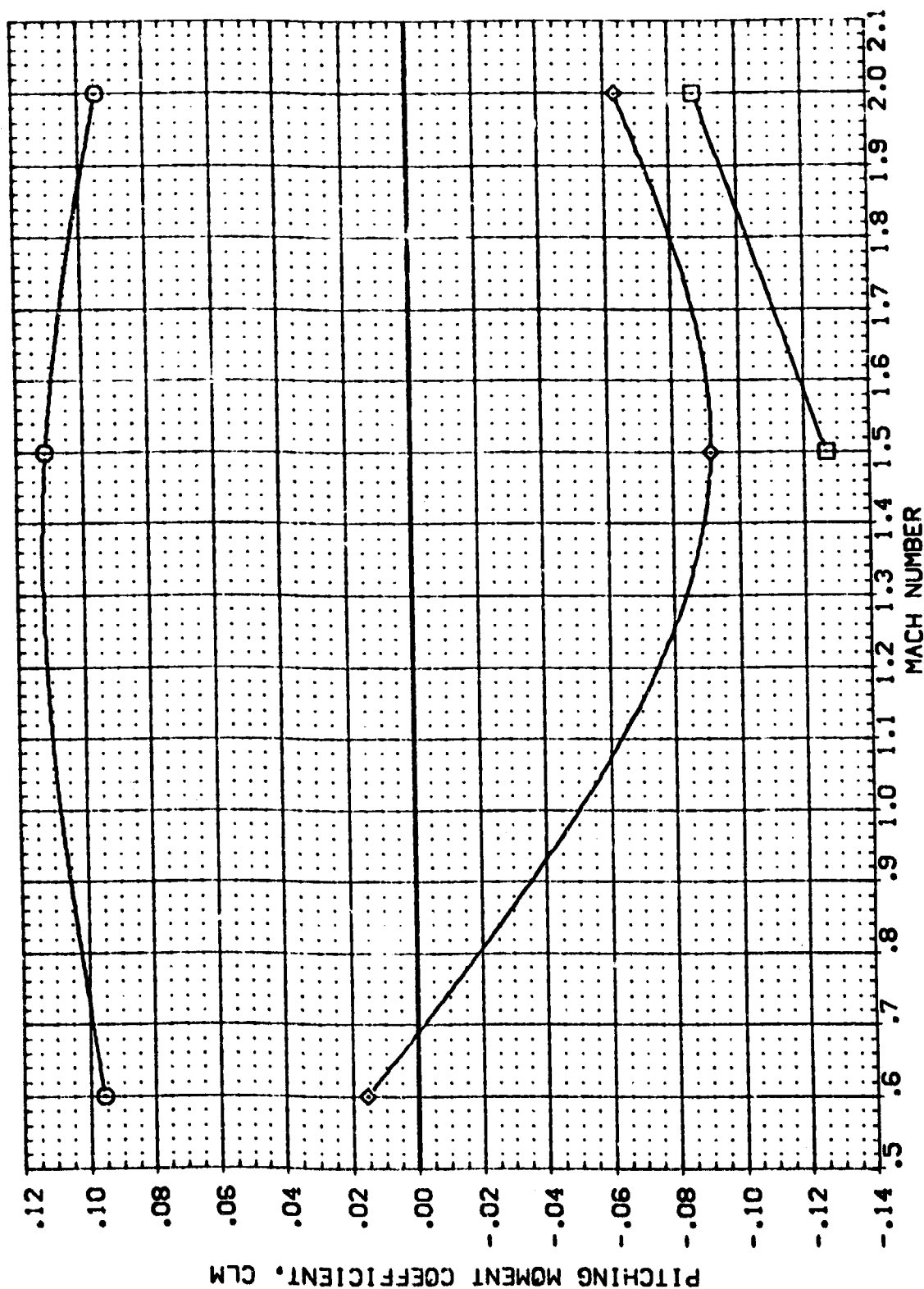


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

(CJALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(E8T001)	APES 66-706 CM43 B10 CS 07 PG F4	-14.200	.000	54.900	.000	SREF	2690.0000 SO.FT.
(E8T002)	APES 66-706 CM43 B10 CS 07 PG F4	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(E8T004)	APES 66-706 CM43 B10 CS 07 PG F4	-14.200	.000	54.900	.000	BREF	936.6800 IN.
						XMRP	1103.2400 IN.
						YMRP	400.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150

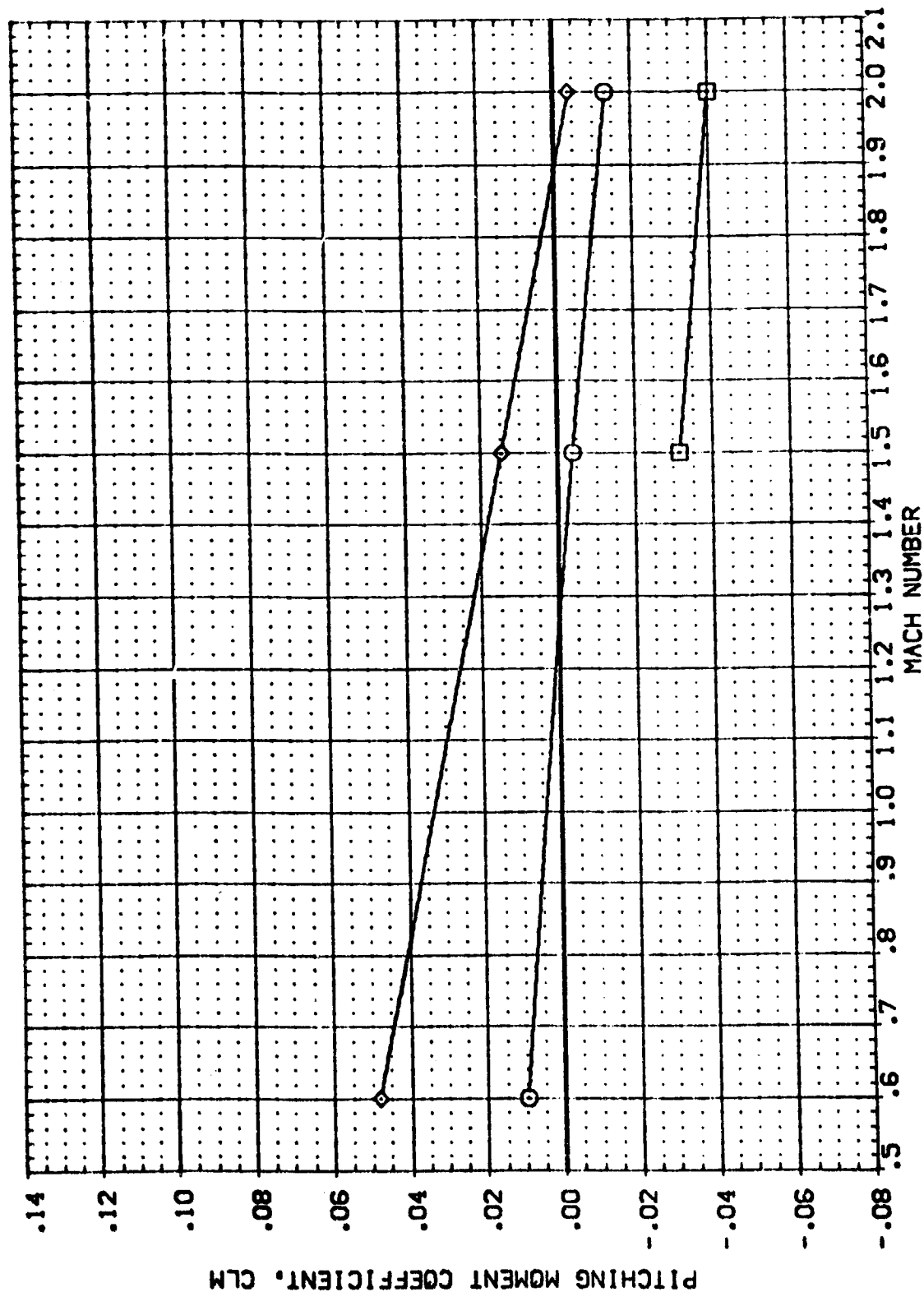


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(A) ALPHA = .00

DATA SET SYMB.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(E8T001)	AVES 66-706 0A43 810 CS D7 H3 F4	-14.200	.000	.000	.000	SREF 2690.0000 SQ.FT.
(E8T002)	AVES 66-706 0A43 810 CS D7 H3 F4	-14.200	.000	54.00	.000	LREF 474.8000 IN.
(E8T004)	AVES 66-706 0A43 810 CS D7 H3 F4	-14.200	.000	54.00	.000	SREF 936.8000 IN.
						XREF 1103.2400 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

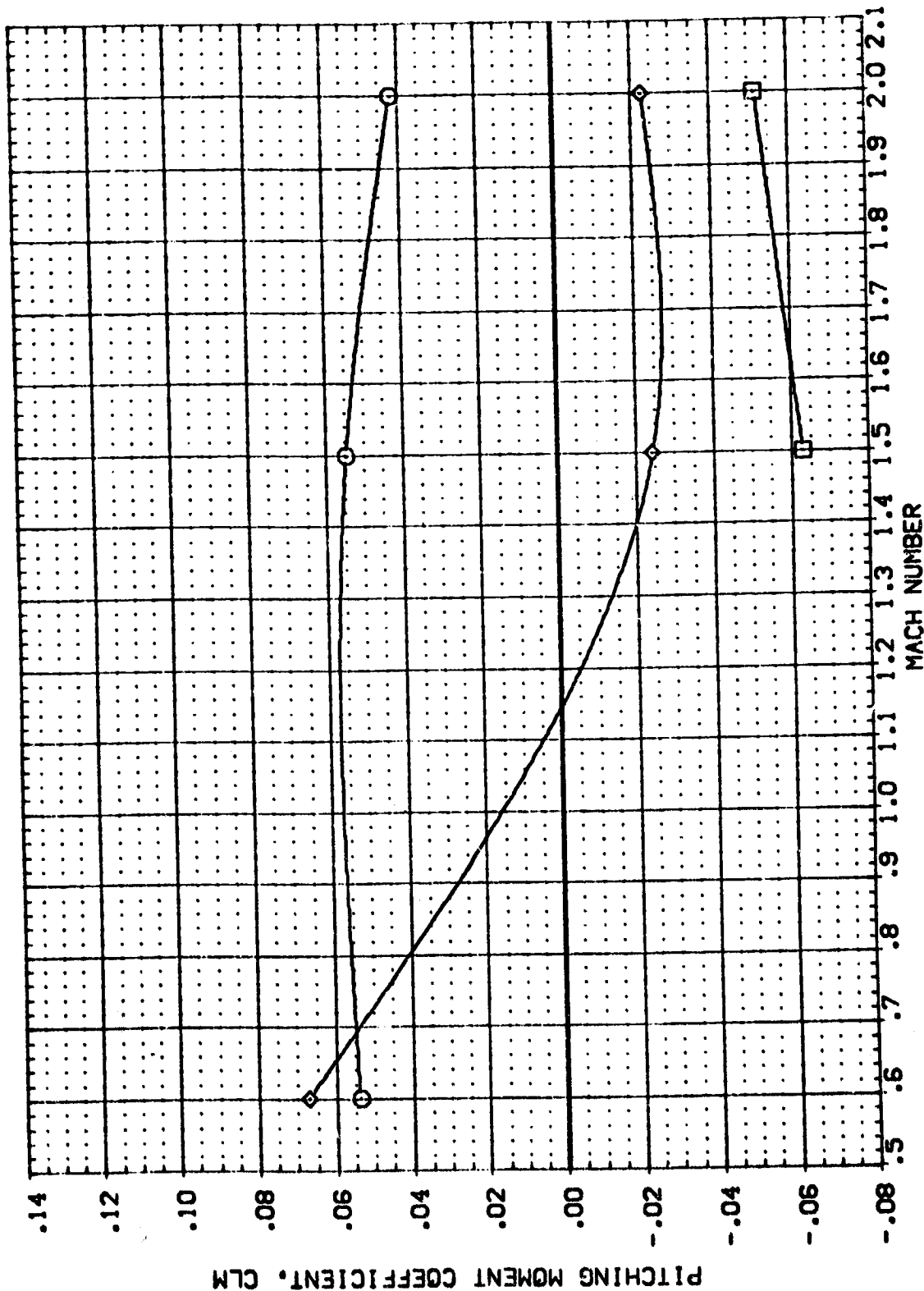


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(EBT001)	AVES 66-706 0M43 810 CS 07 M3 F4	-14.200	.000	.000	.000	SREF	2690.0000 SQ.FT.
(EBT002)	AVES 66-706 0M43 810 CS 07 M3 F4 V87E18	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(EBT004)	AVES 66-706 0M43 810 CS 07 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	BREF	936.6800 IN.
						XPRP	1103.2400 IN.
						YPRP	0.0000 IN.
						ZPRP	400.0000 IN.
						SCALE	.0150 SCALE

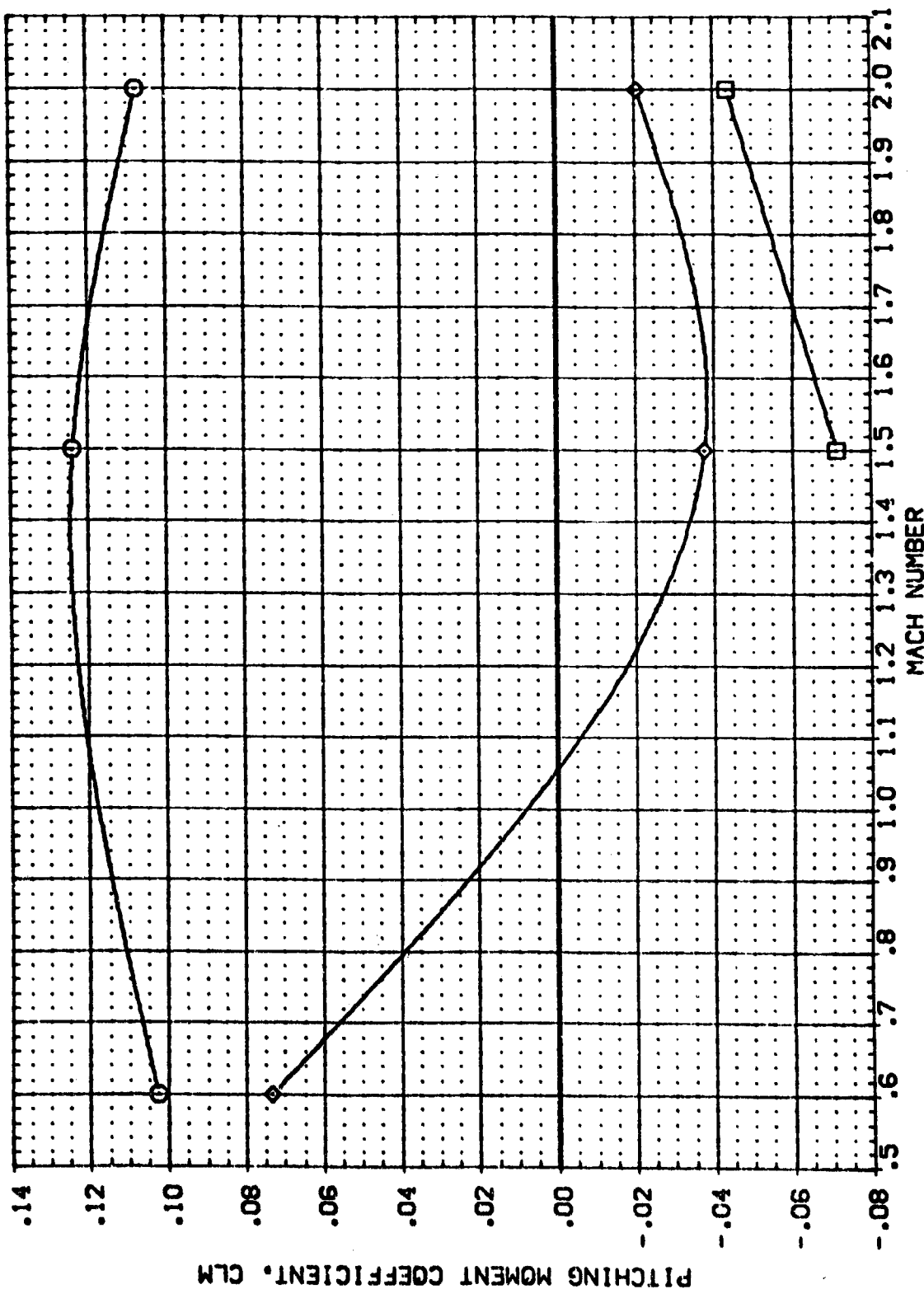


FIG. 4 LONGITUDINAL COMPONENT BUILDUP (AFT C.G.)

(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRX	RUDDER	REFERENCE INFORMATION	
(CBT001)	AVES 66-706 0M3 810 CS 07 P3 F4	-14.200	.000	.000	.000	SREF	2690.0000 SQ.FT.
(CBT002)	AVES 66-706 0M3 810 CS 07 P3 F4	-14.200	.000	54.900	.000	LREF	474.8000 IN.
(CBT004)	AVES 66-706 0M3 810 CS 07 P3 F4	-14.200	.000	54.900	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150

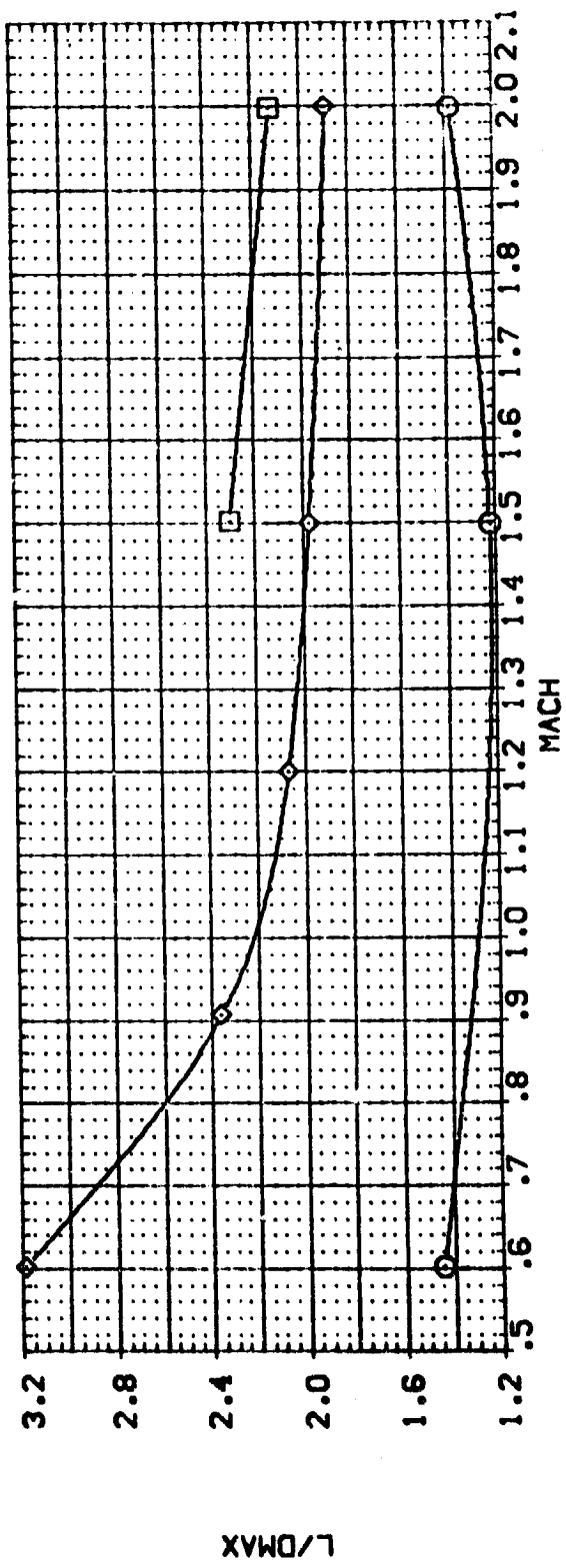
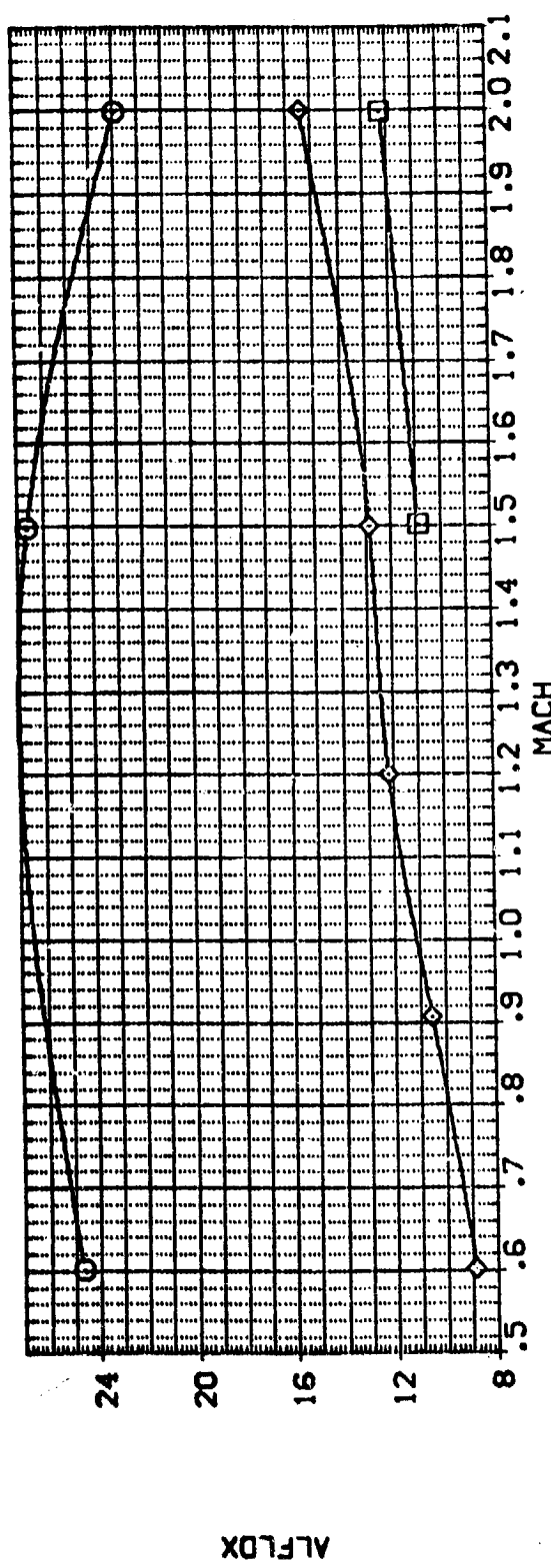


FIG. 4 LONGITUDINAL COMPONENT BUILDUP

AMES 66-706 A43 B10 C5 D7 M3 F4 W87E18 V5R5 (CBT004)

PARAMETRIC VALUES

BETA	.000	ELEVON	.000
AILRON	.000	SPOBRK	54.900
ROOFLP	-14.200	RLODR	.000
ELVN-L	.000	ELVN-R	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

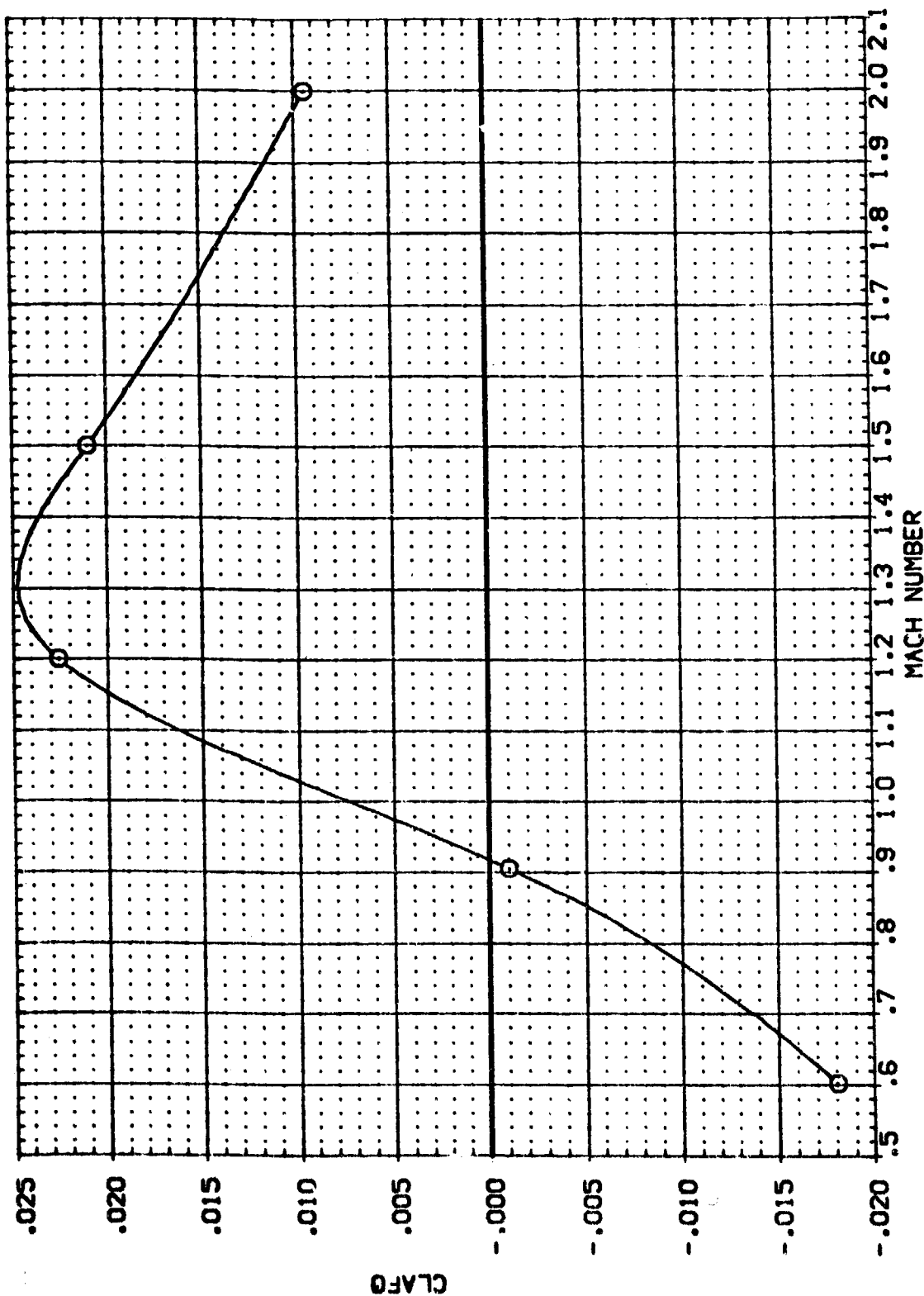


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

PARAMETRIC VALUES
 BETA .000 ELEVON .000
 AIRLON .000 SPDRK 54.500
 BOOFLP -14.200 RUDDER .000
 ELVN-L .000 ELVN-R .000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XREF 1076.4800 IN.
 YREF .0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150

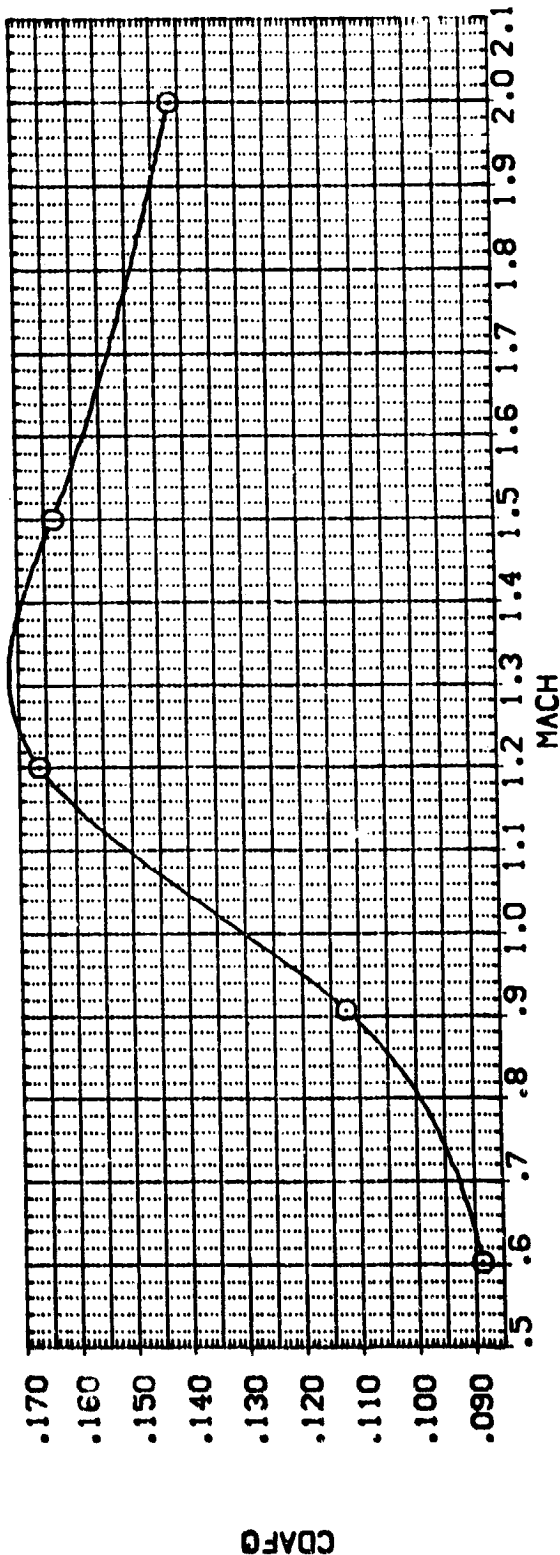
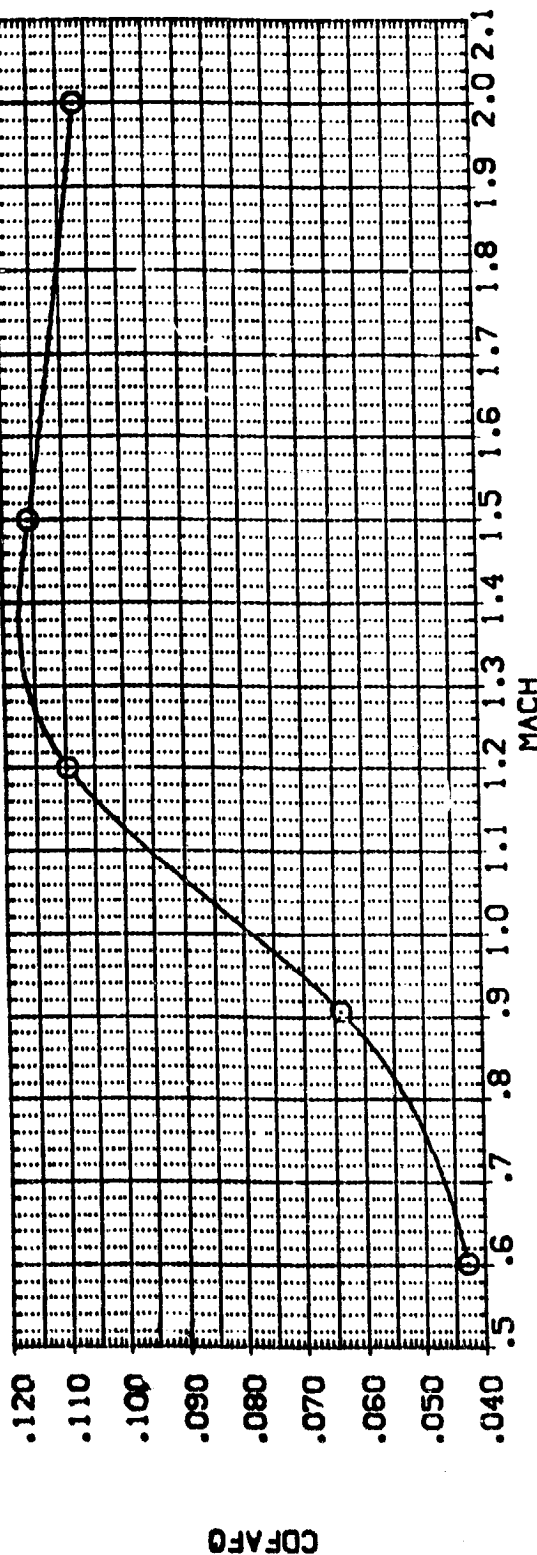


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (CBT004)

PARAMETRIC VALUES

BETA	.000	ELEVON	.000
AILRON	.000	SPDRK	54.900
BOOFLP	-14.200	RDOER	.000
ELVN-L	.000	ELVN-R	.000

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XPRP	1076.4800	IN.
YPRP	.0000	IN.
ZPRP	400.0000	IN.
SCALE	.0150	SCALE

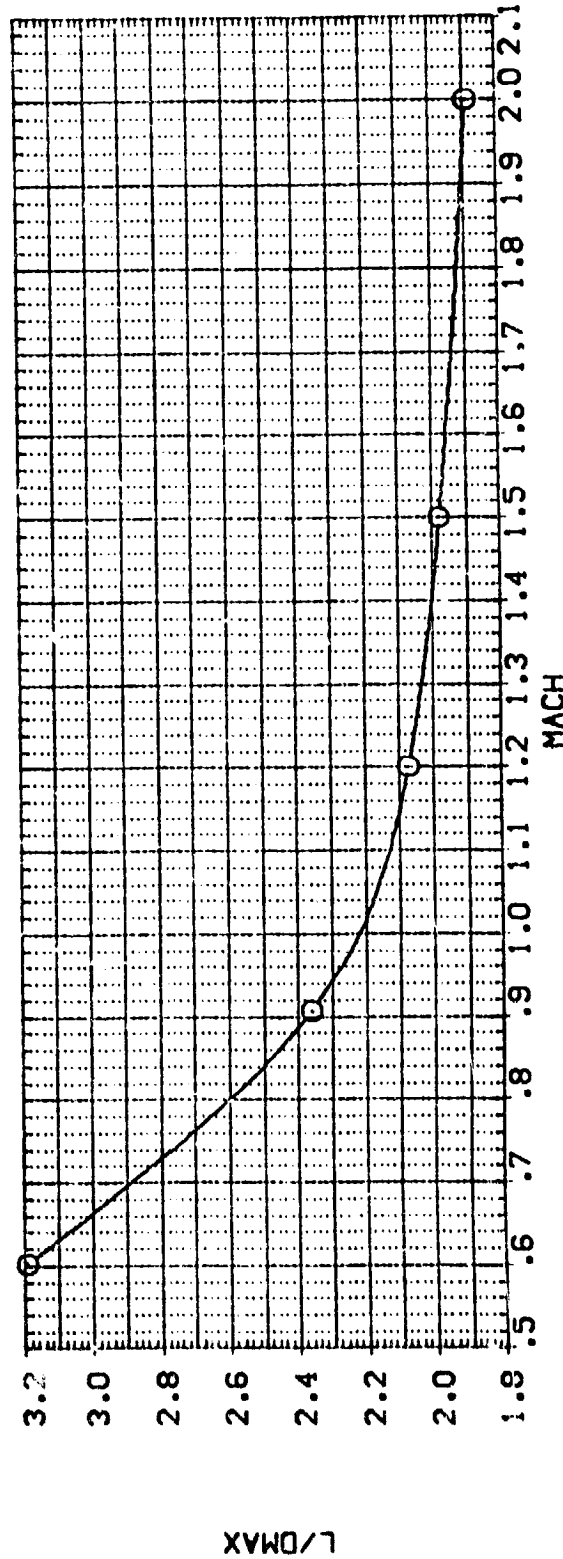
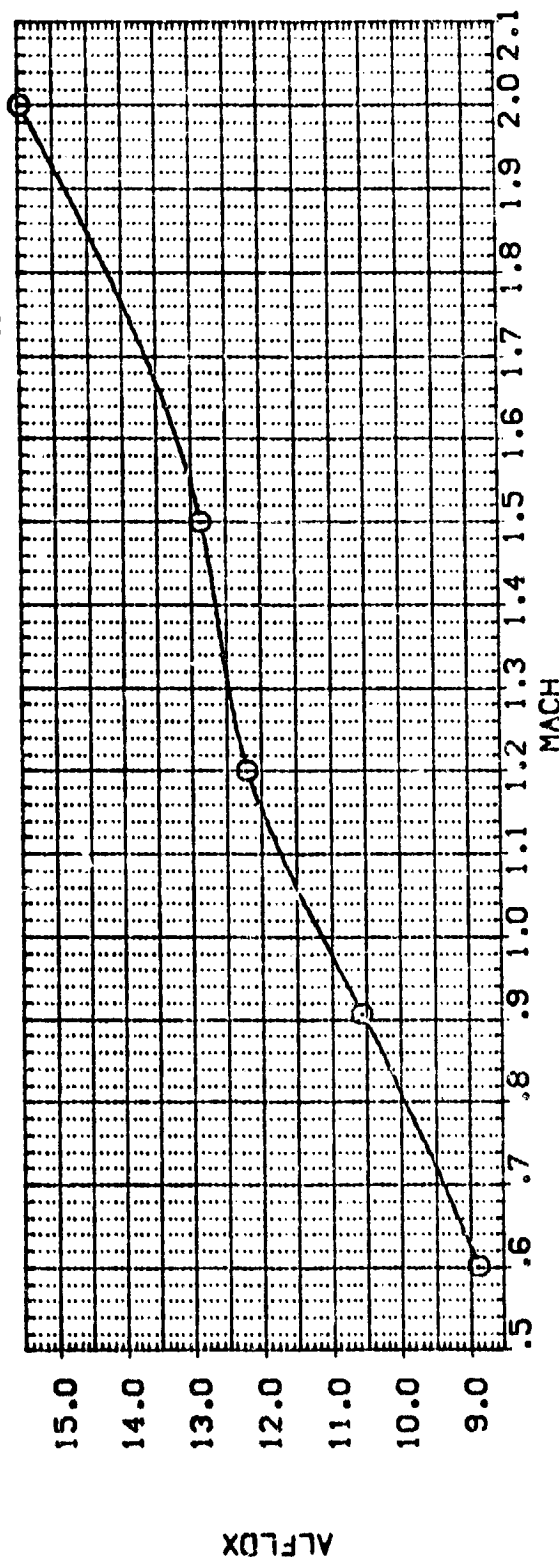


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

PARAMETRIC VALUES

BETA	.000	ELEVON	.000
AIRLON	.000	SPDRK	54.500
BOOFLP	-14.200	RJDER	.000
ELVN-L	.000	ELVN-R	.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8000	IN.
BREF	936.8800	IN.
XPRP	1076.4800	IN.
YPRP	.0000	IN.
ZPRP	400.0000	IN.
SCALE	.0150	SCALE

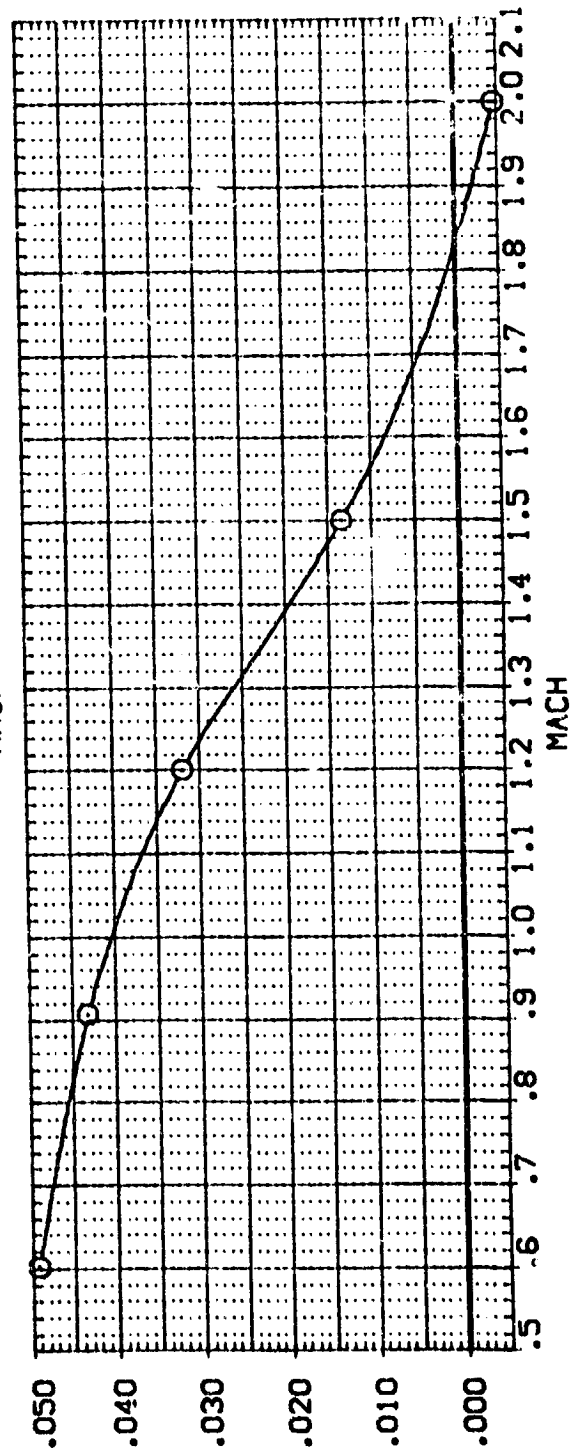
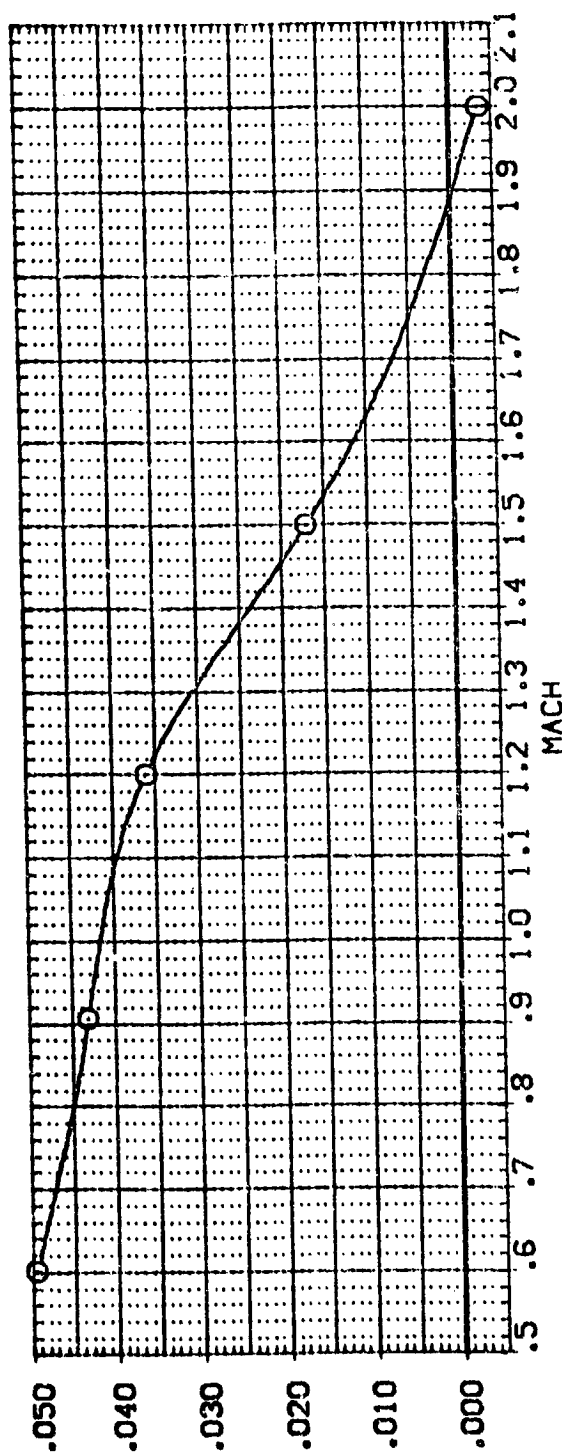


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (CBT004)

REFERENCE INFORMATION
 SREF 2650.0000
 LREF 474.8000
 BREF 936.6800
 XMRP 1076.4800
 YMRP 400.0000
 ZMRP 400.0000
 SCALE .0150

PARAMETRIC VALUES
 BETA .000
 AILRON .000
 BODYLP -14.200
 ELVN-L .000
 ELVN-R .000
 ELEVON .000
 SPOBRK 54.500
 RUCCR .000
 ELVN-R .000

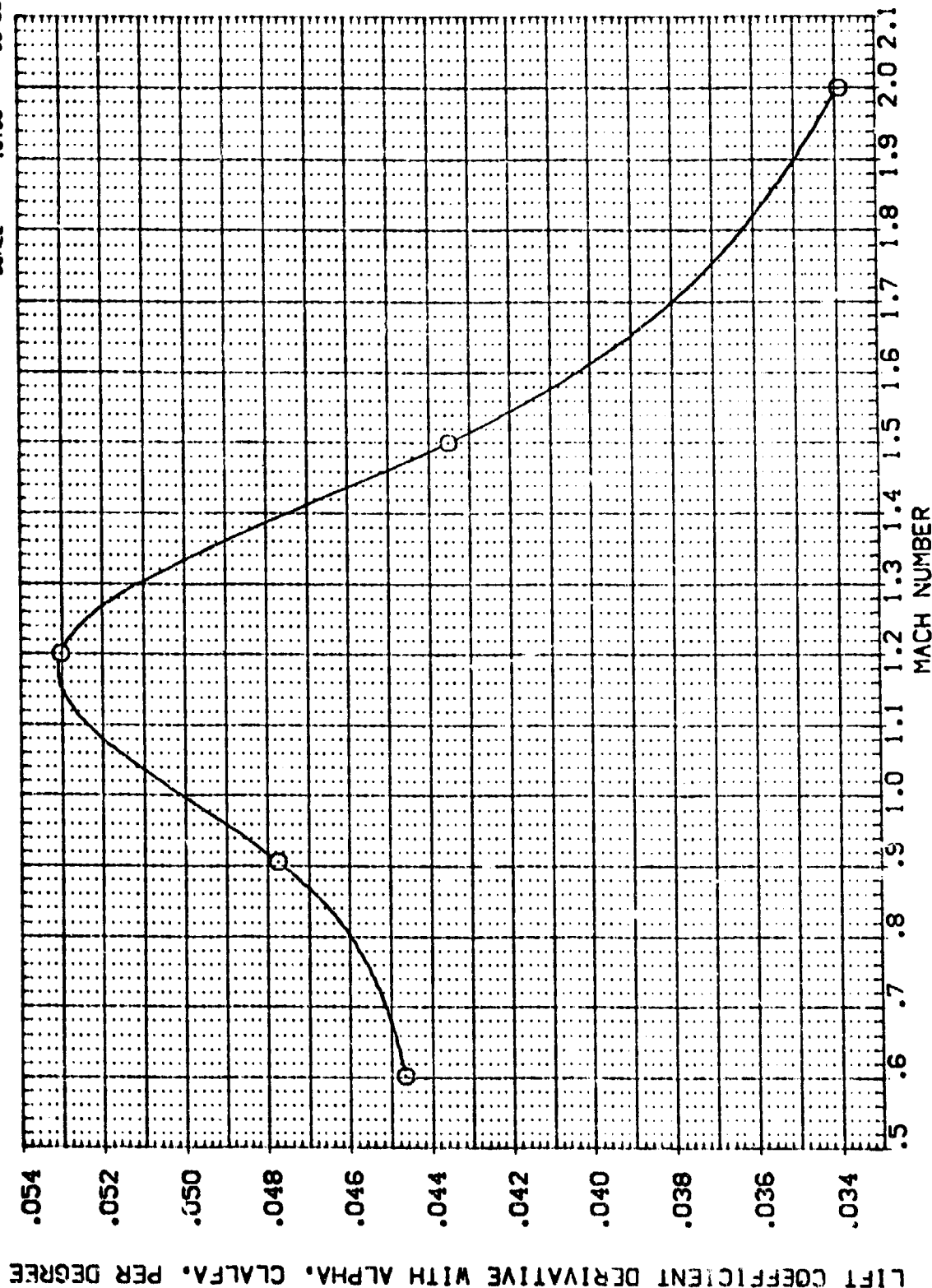


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	ELEVON	SREF	2650.0000	50.FT.	
○	.000	.000	.000	.000	LREF	474.8000	100.FT.	
◇	10.000	AILRON	SPDRK	SPDRK	BREF	936.6800	100.FT.	
	20.000	SCFLP	-14.200	RUDER	YPRP	1076.4800	100.FT.	
		ELVN-L	.000	ELVN-R	ZPRP	400.0000	100.FT.	
					SCALE	.0150	SCALE	

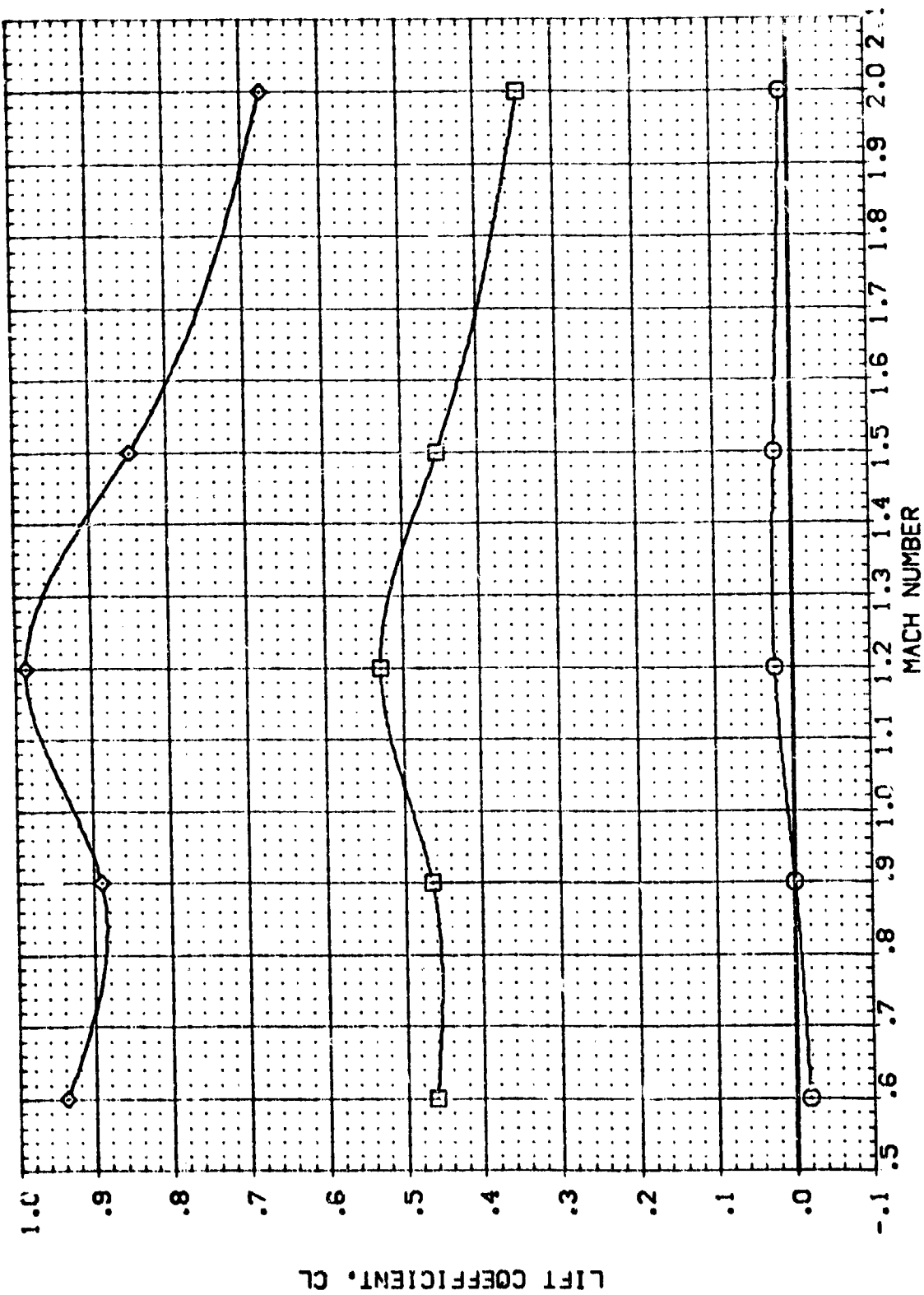


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (FBT0004)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.000	.000	ELEVON .000	SREF 2690.0000 SQ.FT.
□	10.000	.000	SPORRK 54.900	LREF 474.8000 IN.
◇	20.000	-14.200	RUDER .000	BREF 936.5900 IN.
		.000	ELVN-L .000	XPRP 1076.1800 IN.
		.000	ELVN-R .000	YPRP 400.0000 IN.
				ZPRP 400.0000 IN.
				SCALE .0150

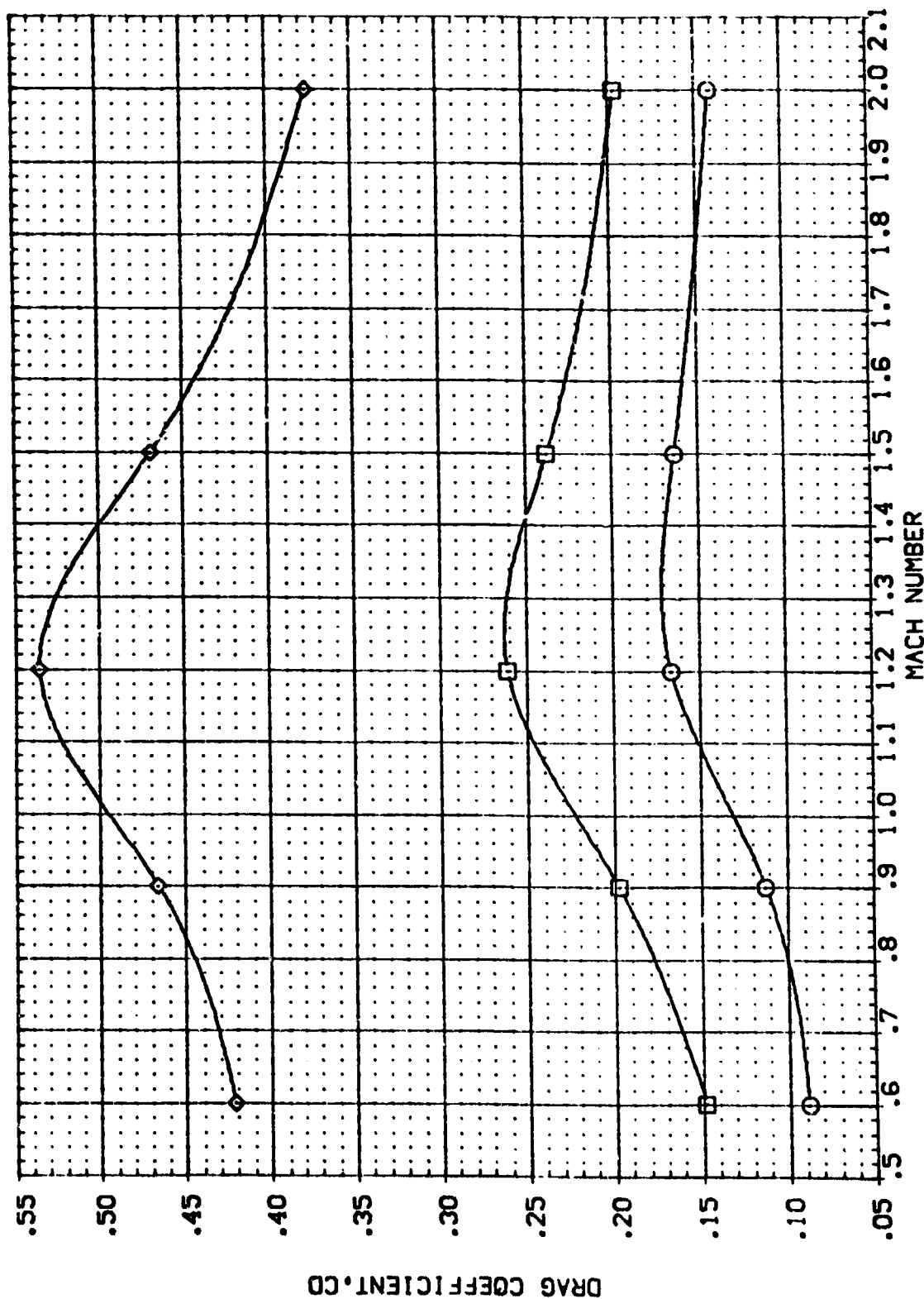
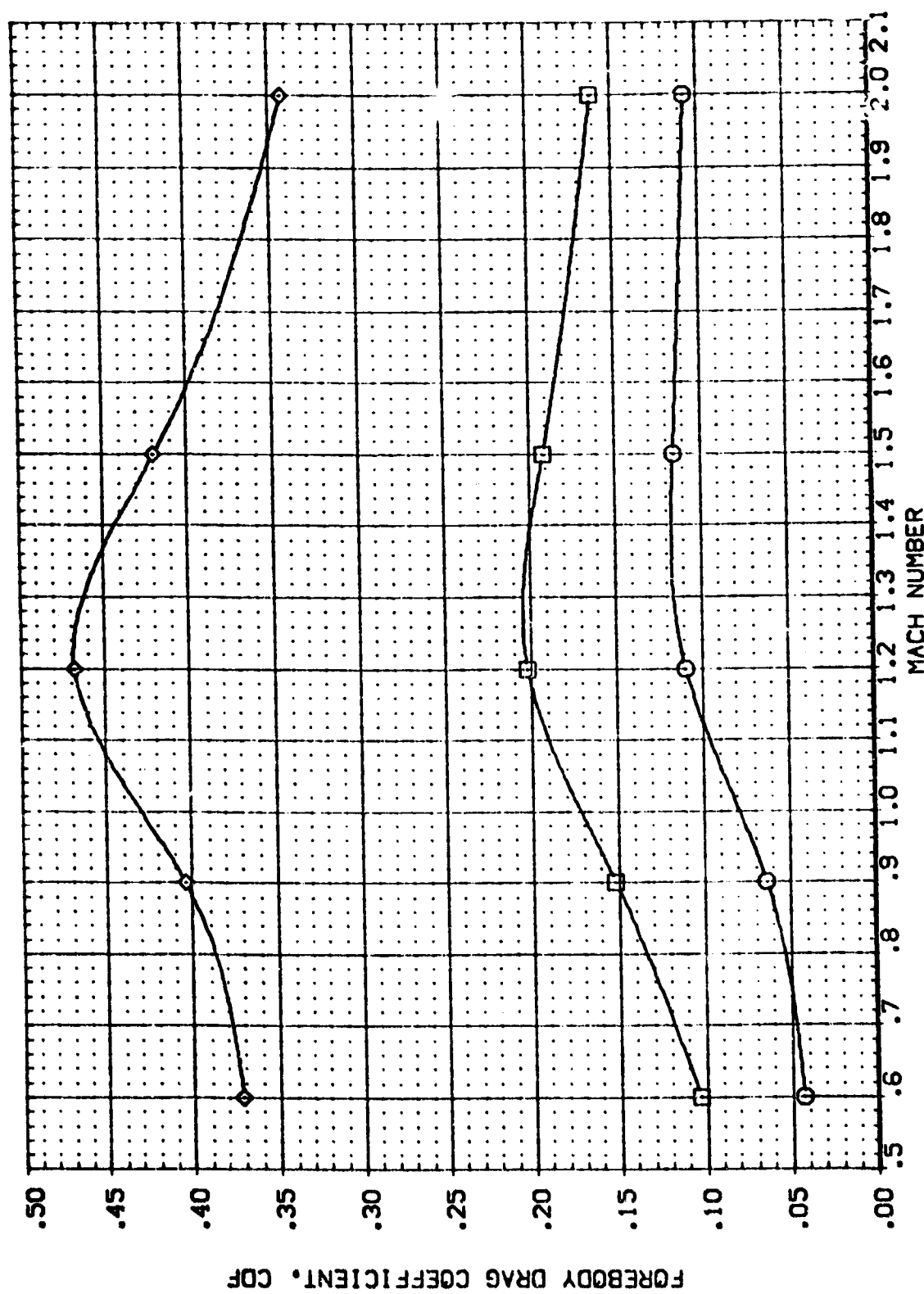


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

SYMBOL	ALPHA
○	.000
□	10.000
◇	20.000



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (FBT0004)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.000	.000	ELEVON	SREF 2690.0000
□	10.000	.000	SPORON	LREF 474.6000
◇	20.000	-14.200	RUDDER	BREF 936.6800
		.000	ELVN-L	XREF 1076.4800
		.000	ELVN-R	YREF 400.0000
				ZREF 400.0000
				SCALE .0150

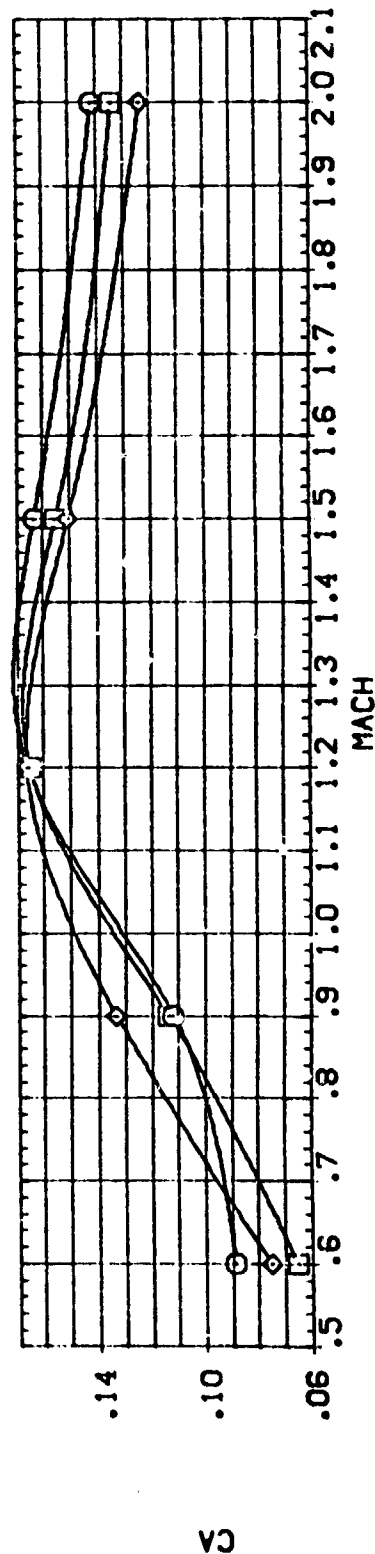
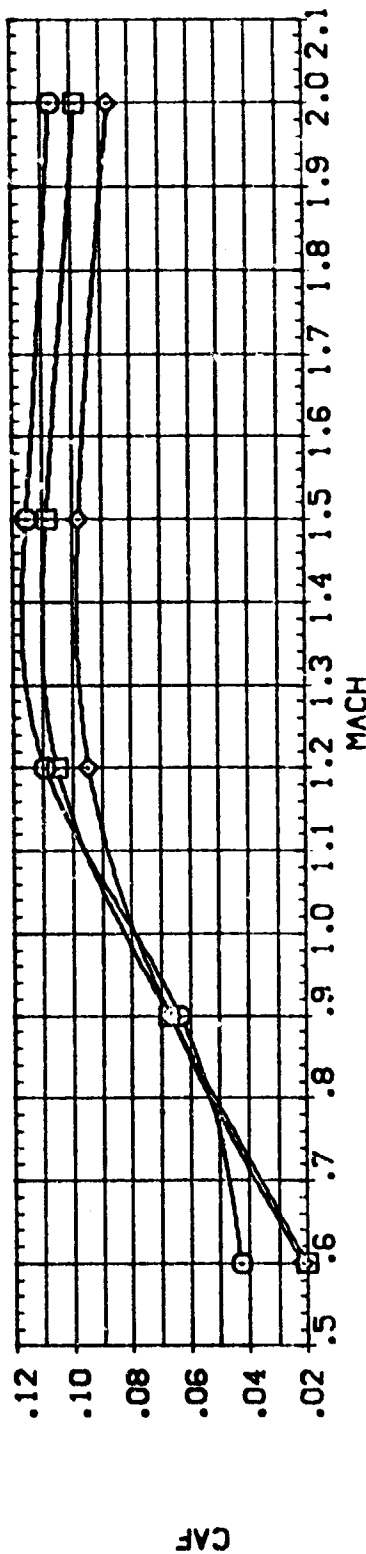
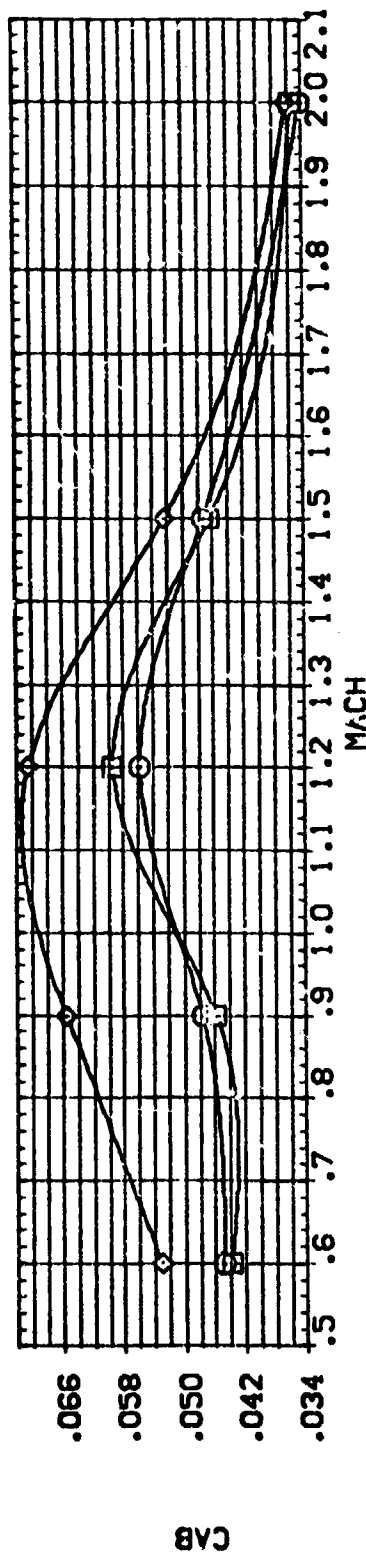


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (FBT0004)

SYMBOL

ALPHA

BETA
AILRON
BOOFLP
ELVN-L

PARAMETRIC VALUES
.000 ELEVON
.000 SPCSRK
-14.200 RLODER
.000 ELVN-R

.000
54.900
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XTRP 1076.4800 IN.
YTRP .0000 IN.
ZTRP 400.0000 IN.
SCALE .0150

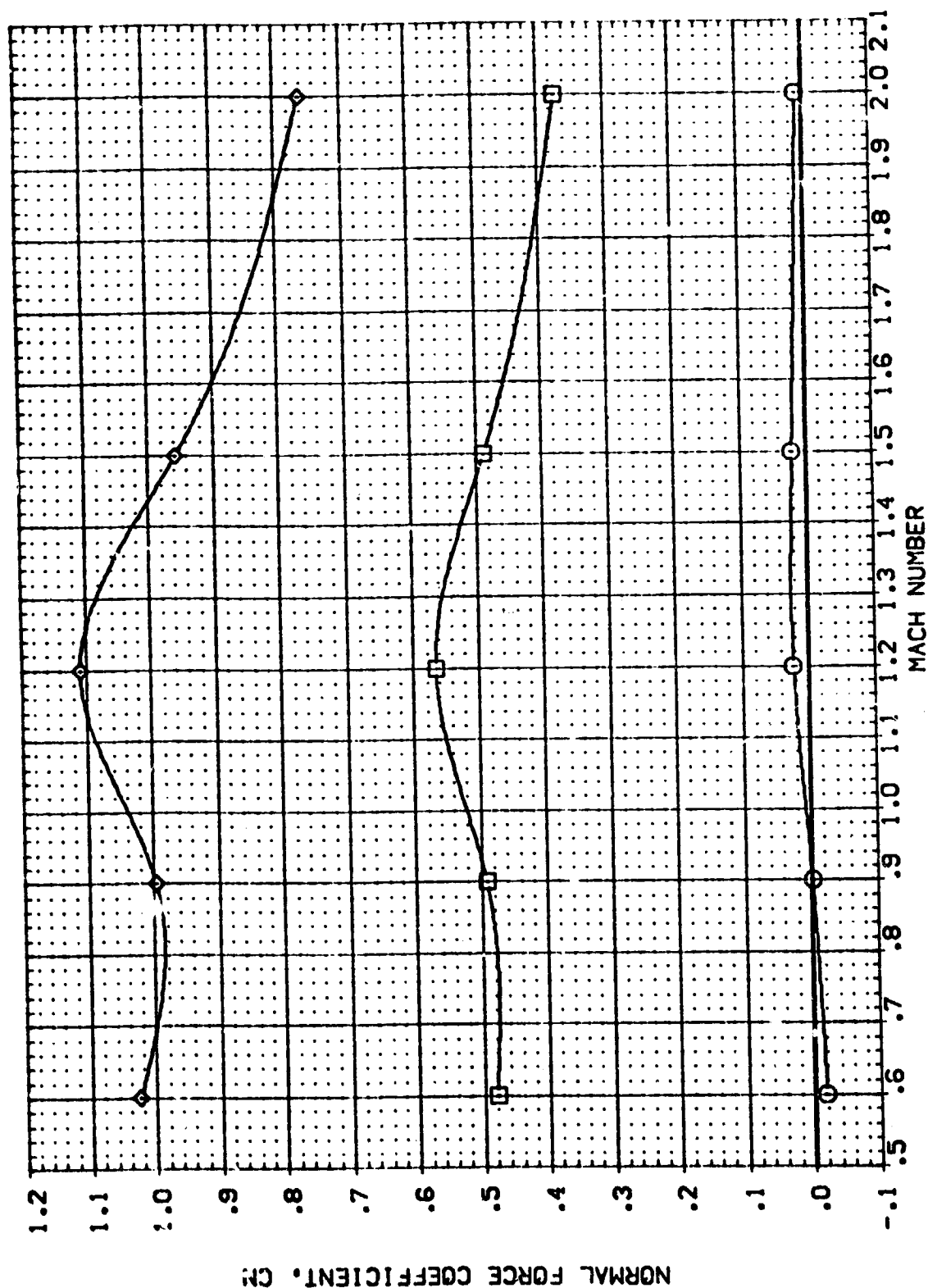


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

(FBT004)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8000 IN.
 BREF 936.5800 IN.
 XPRP 1076.4800 IN.
 YPRP 0.0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 SYMOL ALPHA BETA ELEVN .000
 10.000 AILRON 54.900
 20.000 BOFLP -14.200
 ELVN-L ELVN-R .000

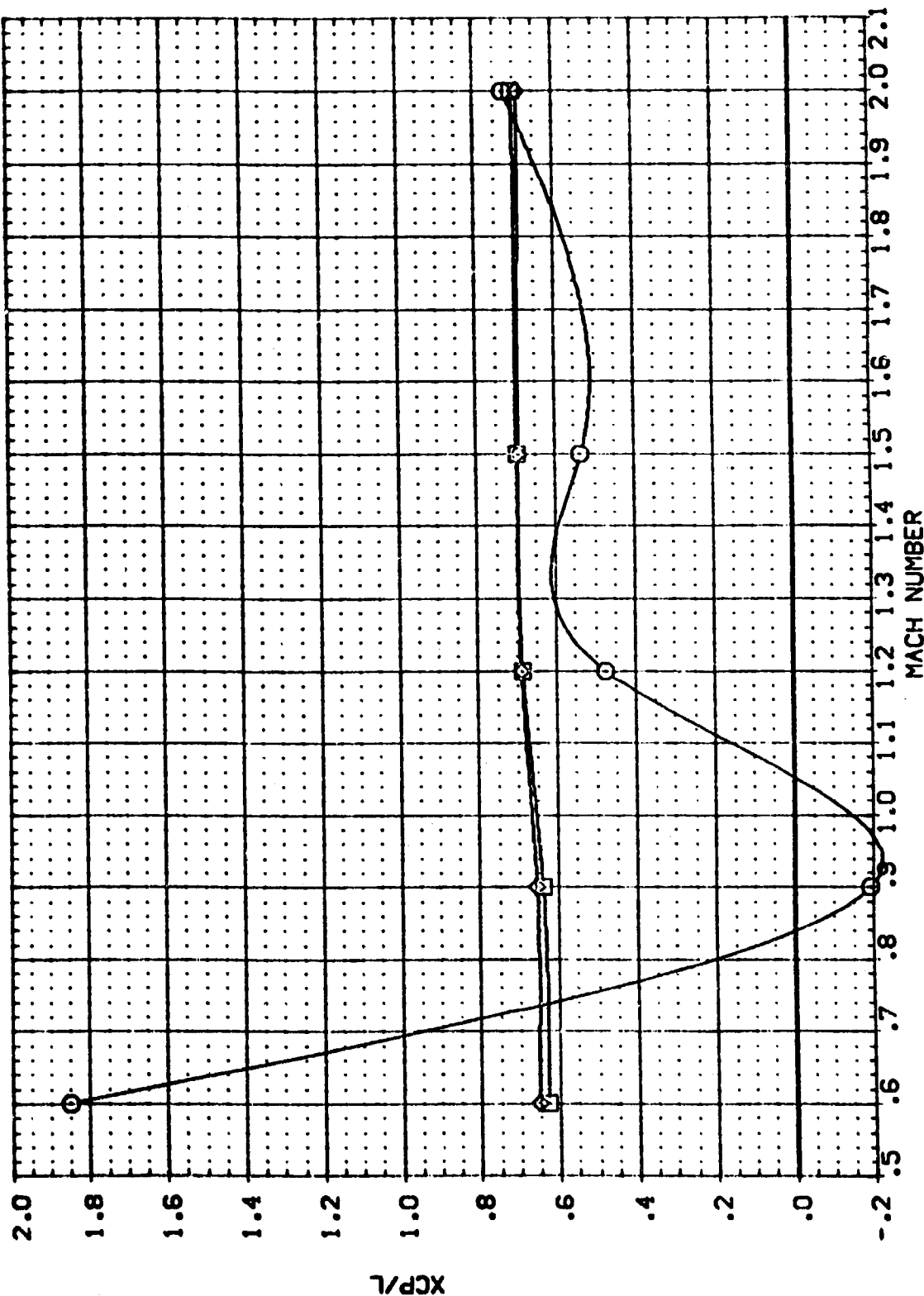


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 536.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 ALPHA .000 BETA .000 ELEVON .000
 10.000 AILRON .000 SPDBRK 54.900
 20.000 BODYLP -14.200 RUDDER .000
 ELVN-L .000 ELVN-R .000

SYMBOL
 □
 ◇

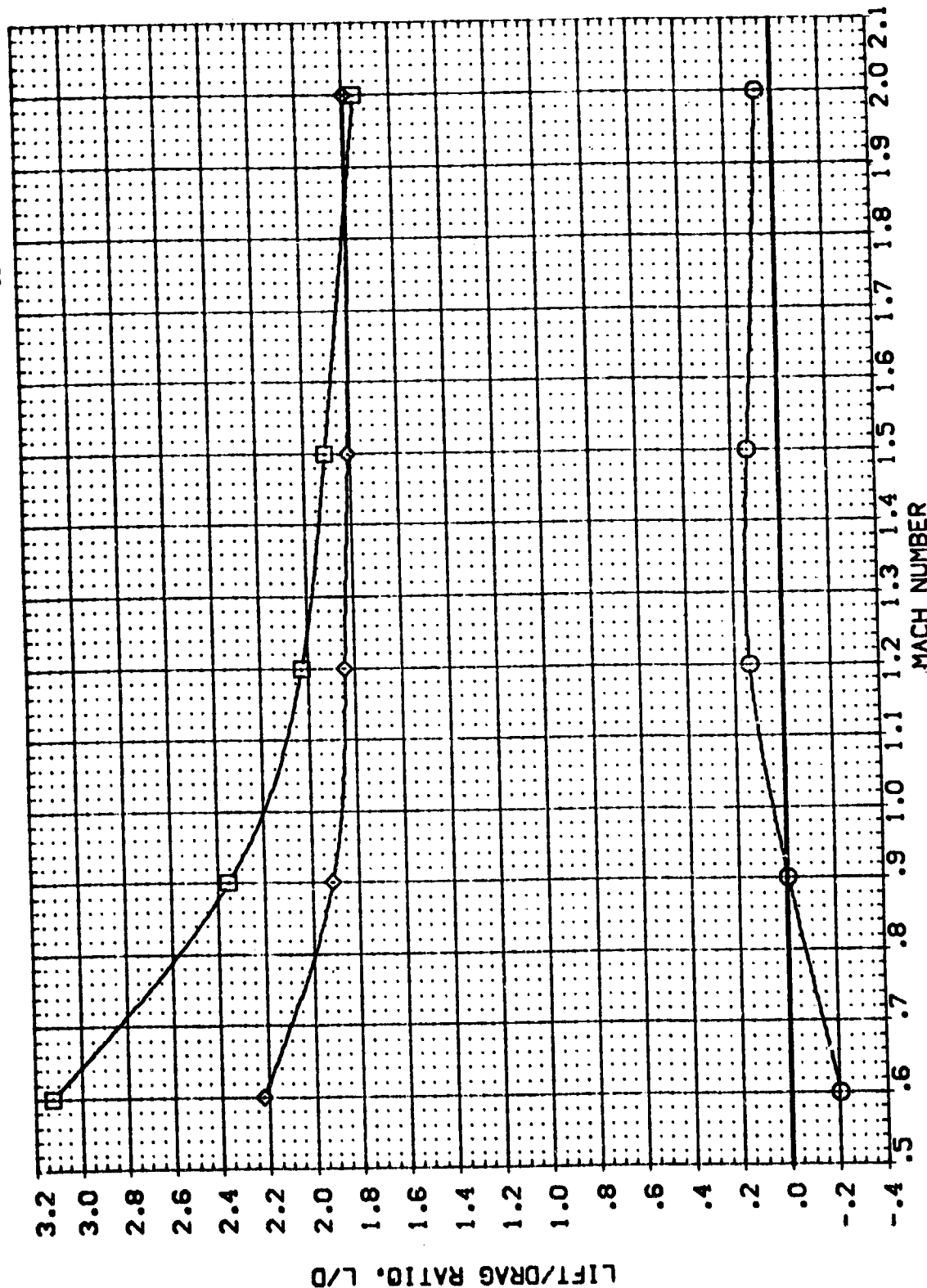


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (FBT004)

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XPRP 1076.4800 IN.
 YPRP .0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 ALPHA .000 ELEVON .000
 10.000 AIRLON 54.900
 20.000 BODYLP .000
 ELVN-L -14.200 ELVN-R .000

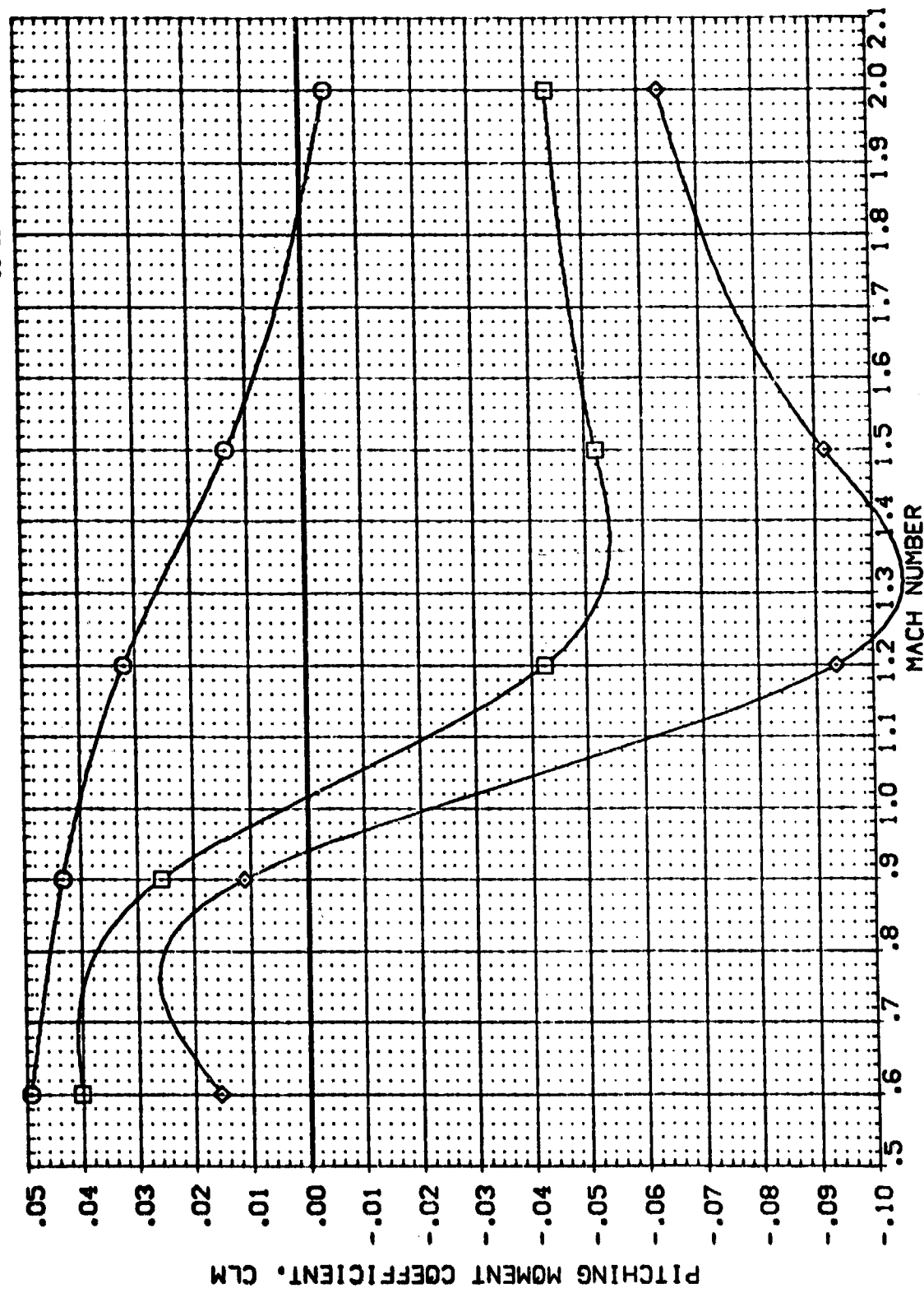


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (GBT0004)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION	SO. FT.
0	.000	.000	ELEVON .000	SREF 2650.0000	IN.
			SPDRK 54.500	LREF 474.8000	IN.
			RJDRK .000	BREF 936.6800	IN.
			ELVN-L -14.200	XMRP 1103.2400	IN.
			ELVN-R .000	YMRP .0000	IN.
				ZMRP 400.0000	IN.
				SCALE .0150	SCALE

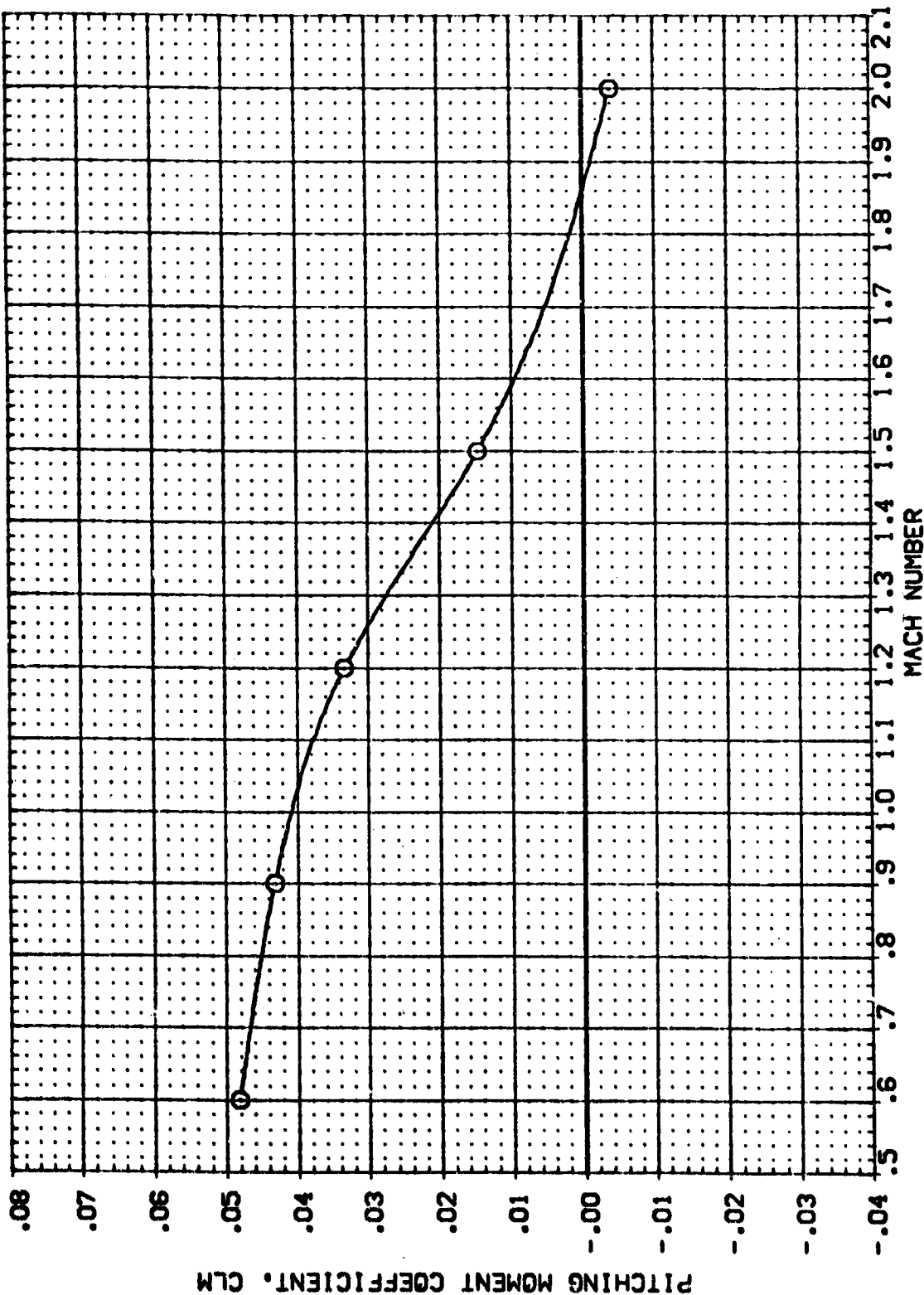


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS (AFT C.G.)

AMES 66-706 GA43 B10 C5 D7 M3 F4 W87E18 V5R5 (GBT004)

SYMBOL ALPHA BETA ALLRN BODYLP ELVN-L

PARAMETRIC VALUES
 .000000000
 .000000000
 -14.200
 .000

ELEVON
 SPDRK
 RUDDER
 ELVN-R

.000
 54.900
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1103.2400 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

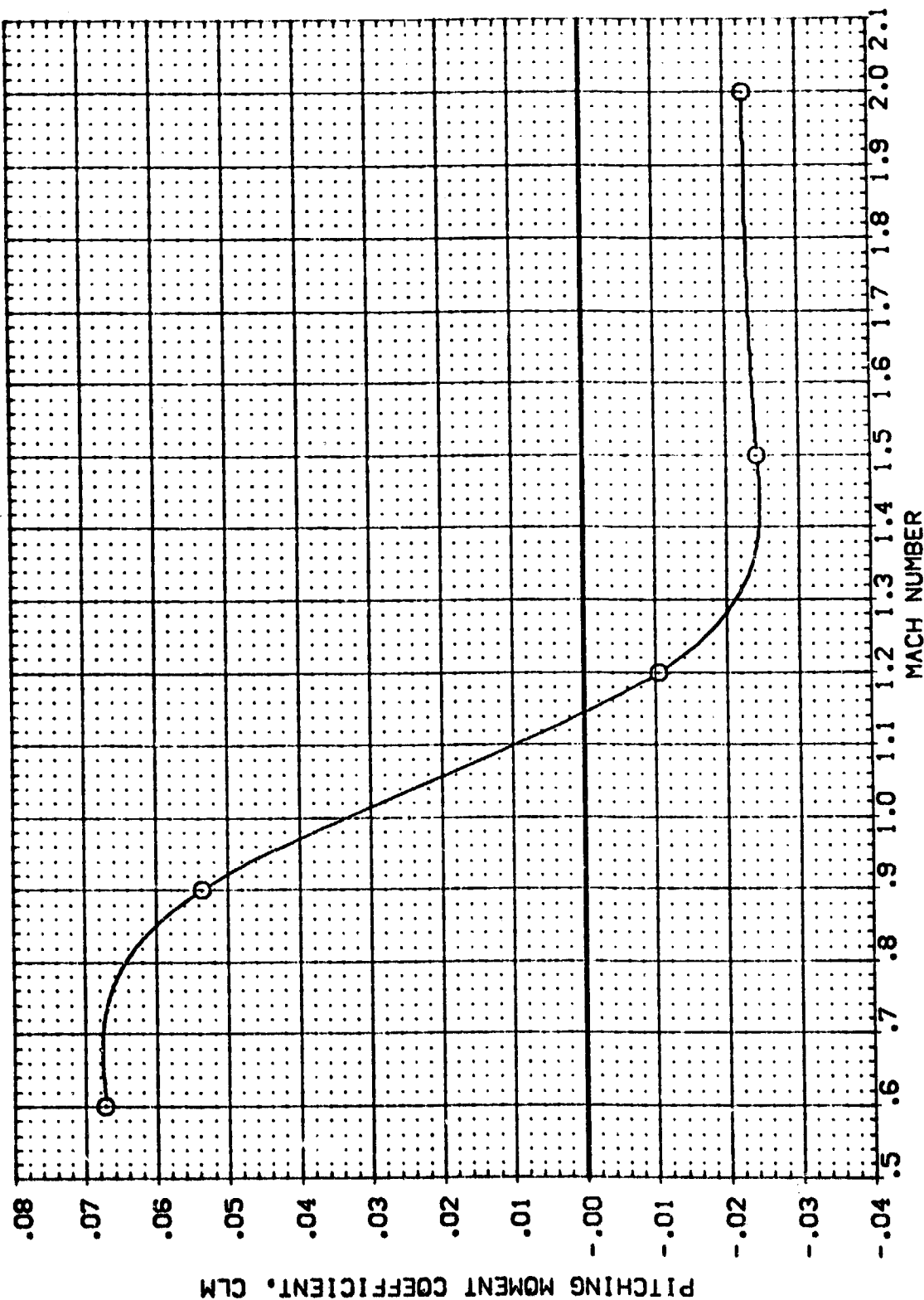


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS (AFT C.G.)

SYMBOL
O

ALPHA
20.000

BETA
A1LRN
B00FLP
ELVN-L

PARAMETRIC VALUES
.000 ELEVON
.000 SPDRK
-14.200 RUDDER
.000 ELVN-R

.000
54.900
.000
.000

REFERENCE INFORMATION
SREF 2650.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XMRP 1103.2400 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

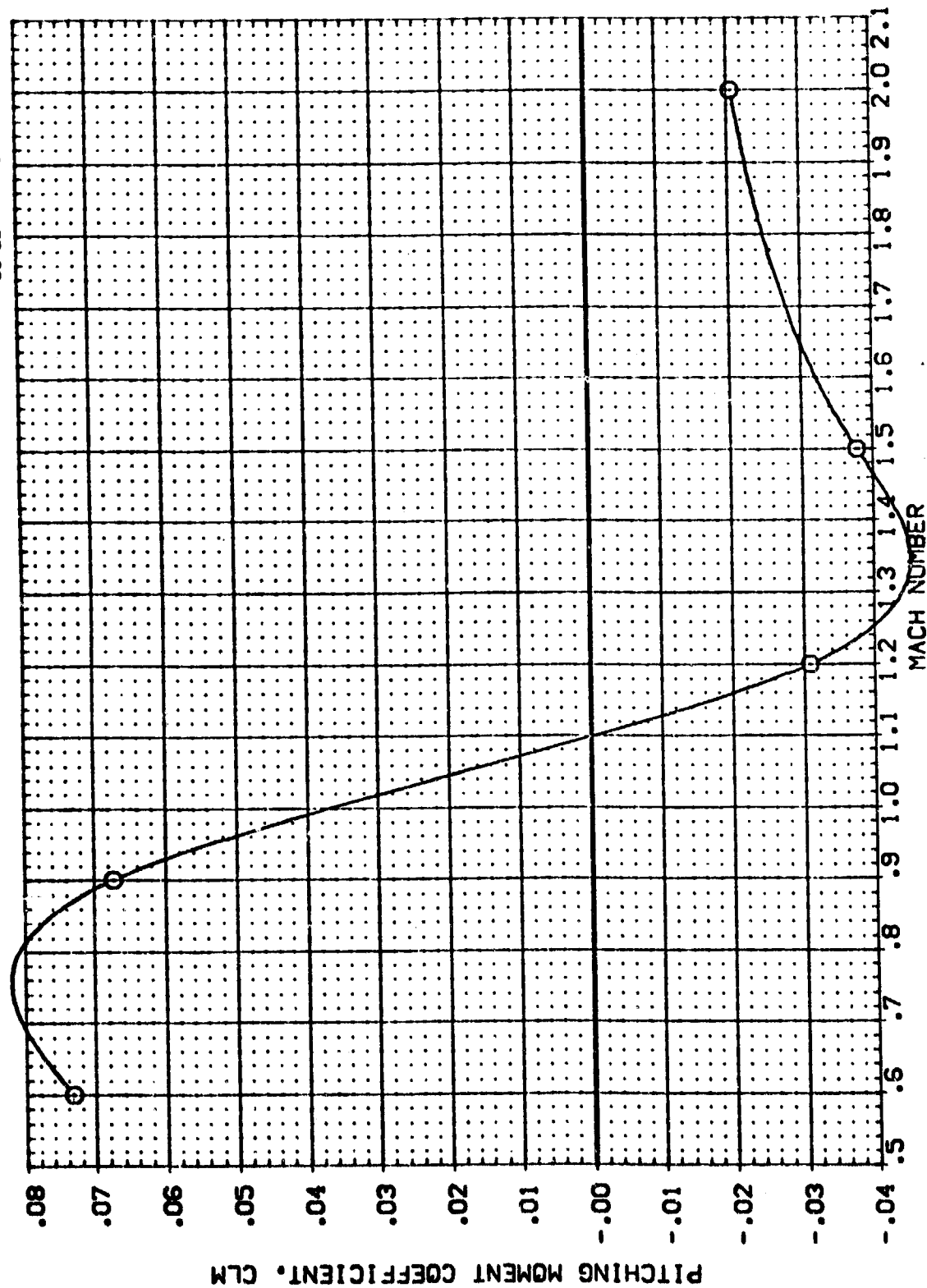


FIG. 5 TOTAL VEHICLE LONGITUDINAL CHARACTERISTICS (AFT C.G.)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		BLUDDR		REFERENCE INFORMATION	
(XBT004)	(RBT027)	AVES 65-706	CM43 810 CS D7 M3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.	
		AVES 65-706	CM43 810 CS D7 M3 F4 V88E18 V5K5	-14.200	.000	54.900	.000	.000	.000	.000	.000	LREF 474.8000 IN.	
												BREF 936.6900	
												X-PRP 1076.4800	
												Y-PRP 400.0000	
												Z-PRP 400.0000	
												SCALE .0150	

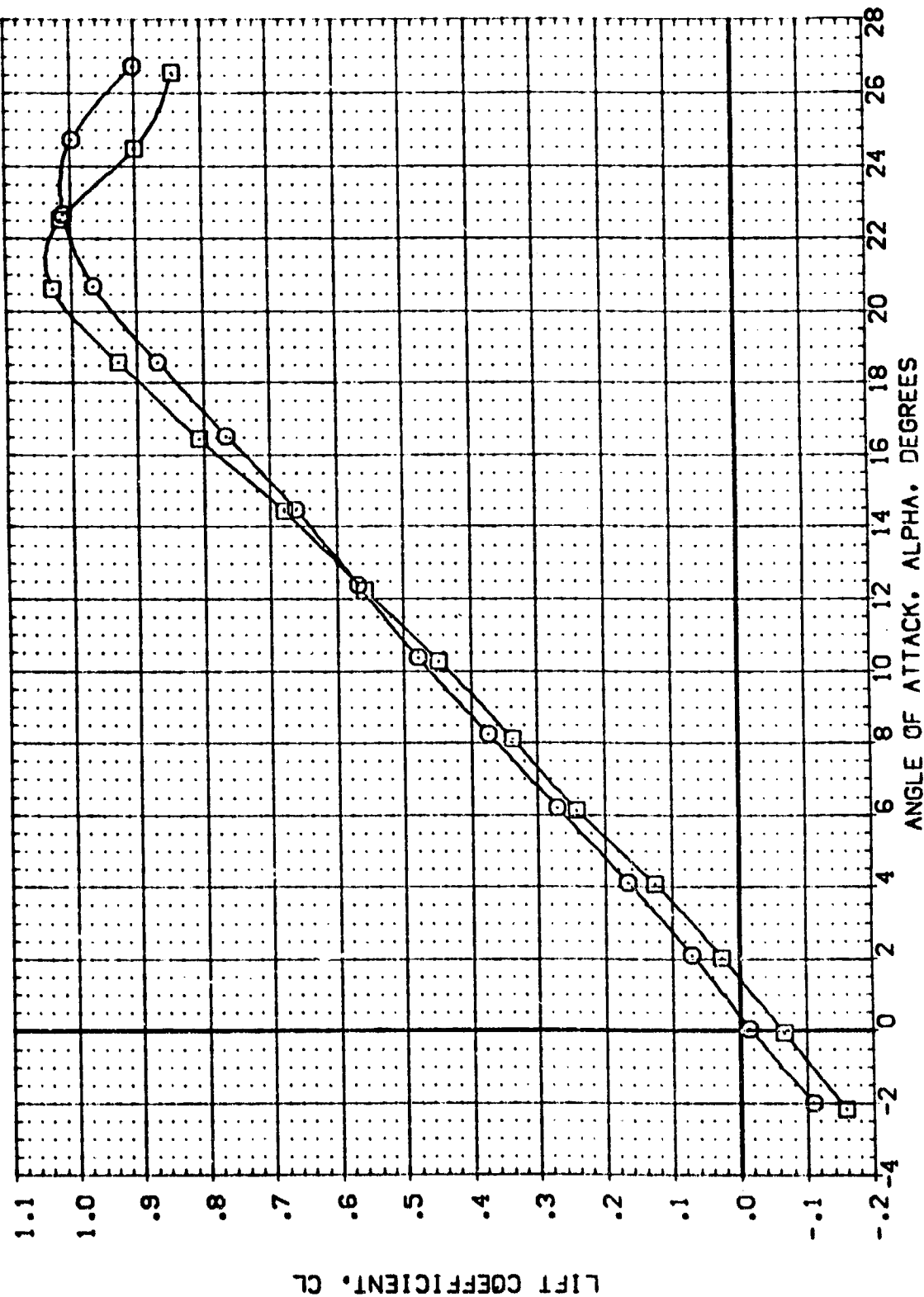


FIG. 6 WING CAMBER EFFECT

(MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION									
[X9T004]		AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS										-14.200		.000		54.500		.000		SREF 2690.0000 SQ.FT.									
[RBT027]		AVES 66-706 DA43 B10 CS D7 M3 F4 V88E18 VSRS										-14.200		.000		54.500		.000		LREF 474.8000 IN.									
																				BREF 936.6800 IN.									
																						XMRP 1076.4800 IN.							
																						YMRP .0000 IN.							
																								ZMRP 400.0000 IN.					
																										SCALE .0150 SCALE			

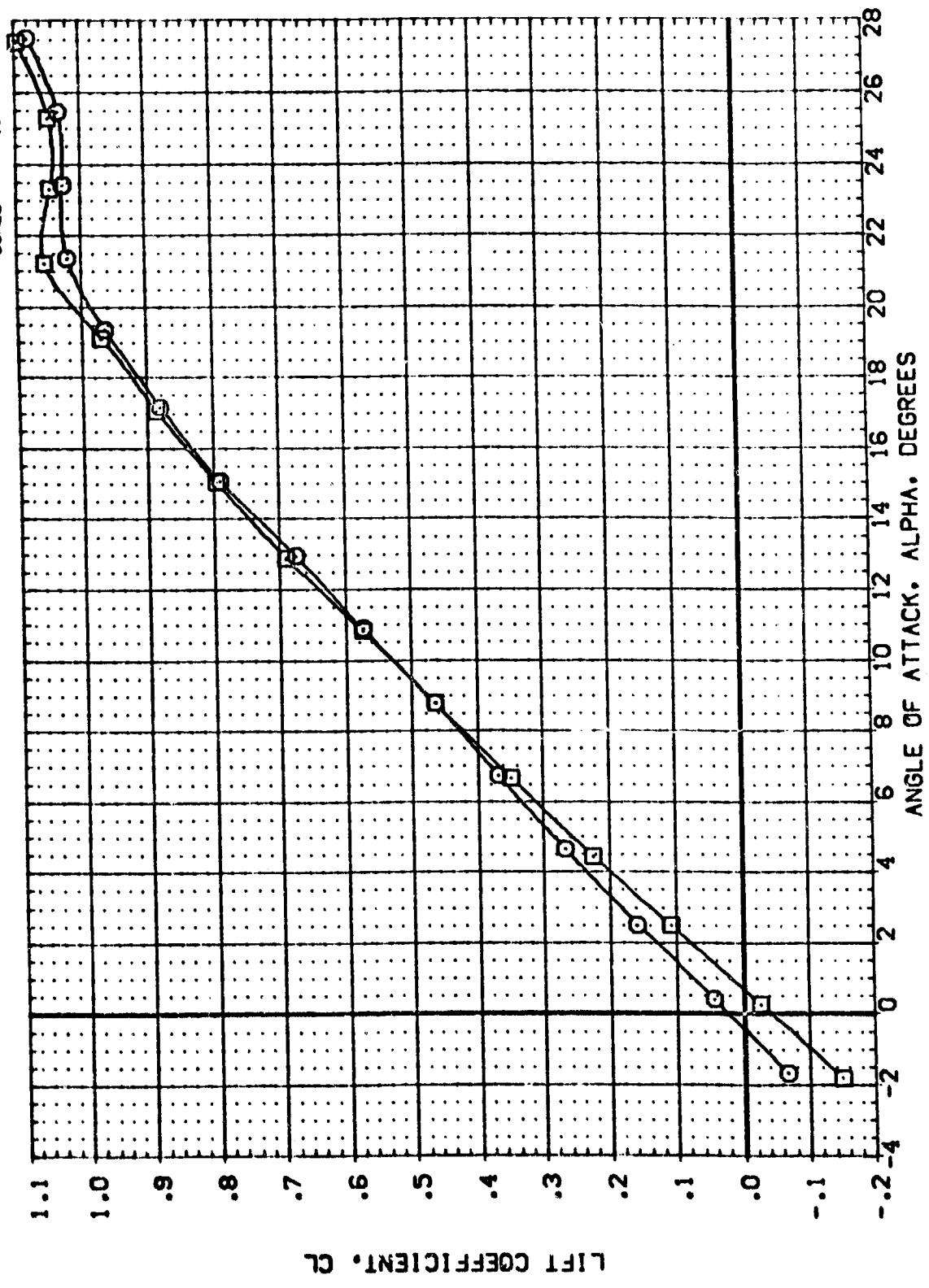


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(XBT004)	AMES 66-706 0A43 B10 CS 07 M3 F4 V87E18 VS25	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT027)	AMES 66-706 0A43 B10 CS 07 M3 F4 V88E18 VS35	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XTRP 1076.4800 IN.
						YTRP 400.0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

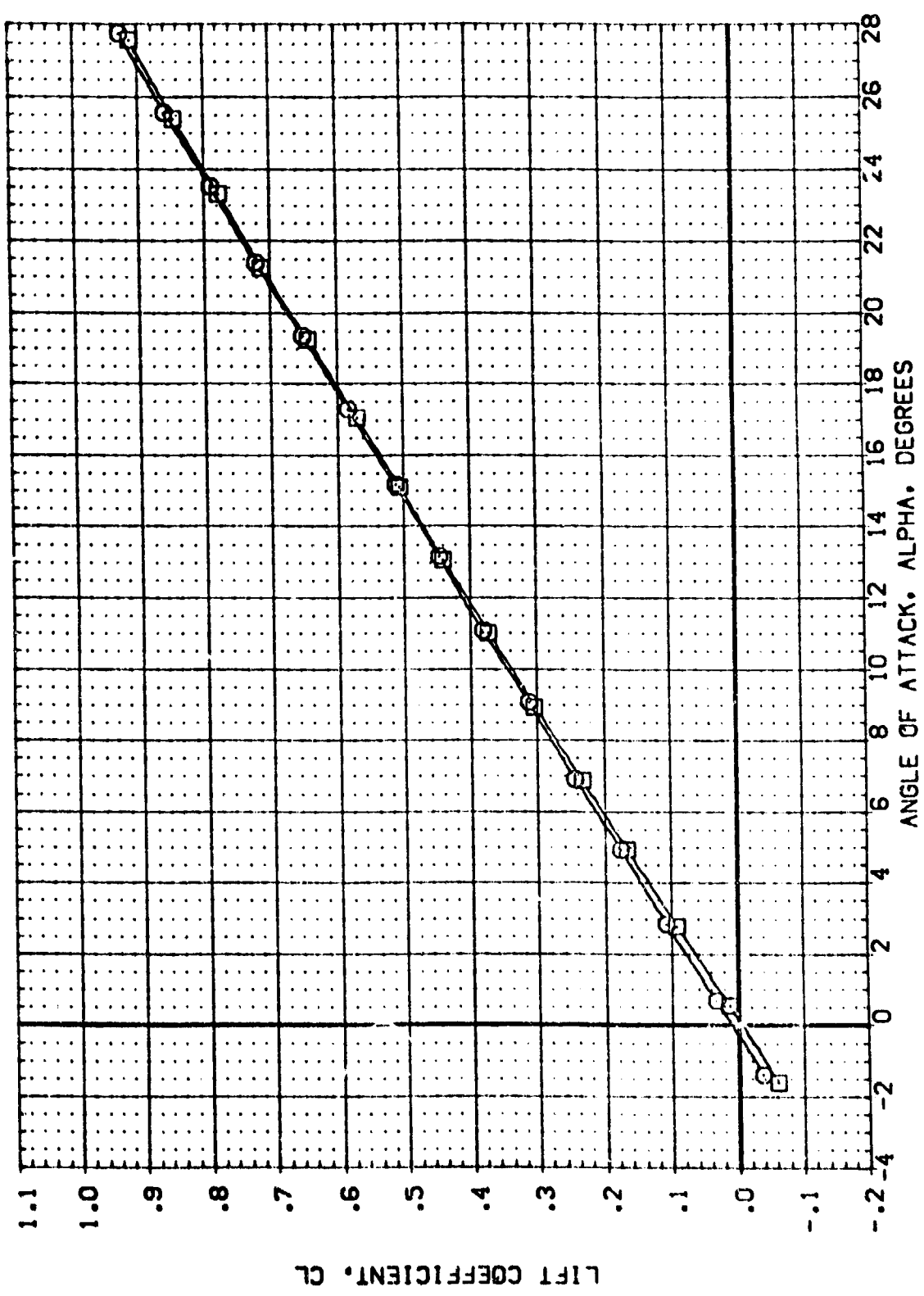


FIG. 6 WING CAMBER EFFECT
(C)MACH = 2.00

DATA SET SYMBOL										CONFIGURATION DESCRIPTION										REFERENCE INFORMATION									
[X8'304]										AMES 66-706 0A43 910 CS 07 M3 F4 V87E18 V5K5										SREF 2690.0000 SQ.FT.									
[R81027]										AMES 66-706 0A43 810 CS 07 M3 F4 V88E18 V5K5										LREF 474.8000 IN.									
																				BREF 936.6800 IN.									
																				X-REF 1076.1800 IN.									
																				Y-REF .0000 IN.									
																				Z-REF 400.0000 IN.									
																				SCALE .0150									

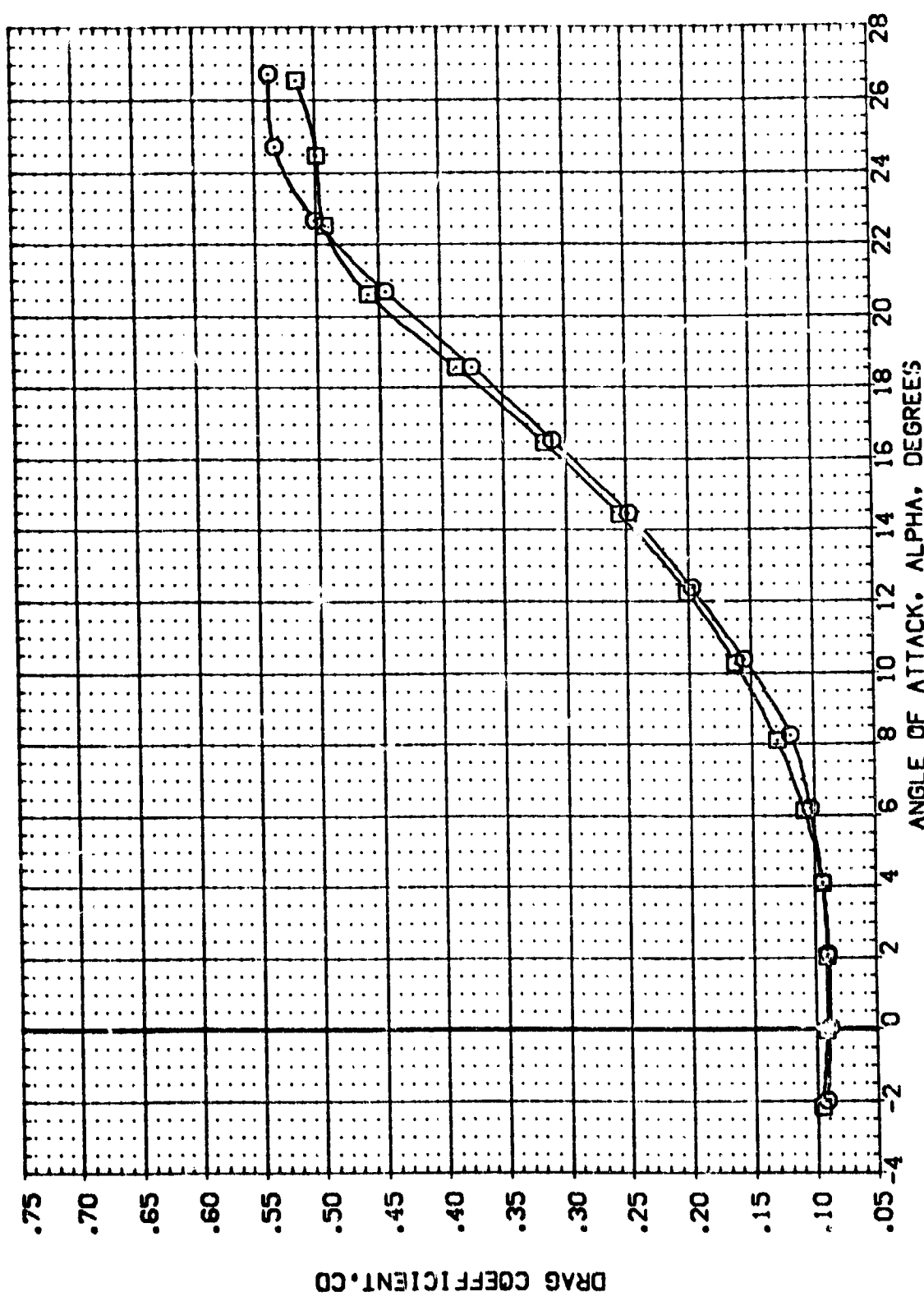


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL: (RST027) ☐ CONFIGURATION DESCRIPTION: AVE5 66-706 0A43 810 CS 07 M3 F4 V87E18 V5R5 AVE5 66-706 0A43 810 CS 07 M3 F4 V88E18 V5R5

BOOFLP: -14.200 ELEVON: .000 SPOBRK: .000 RUDDER: .000

REFERENCE INFORMATION: SREF: 2630.0000 SQ.FT. LREF: 174.8000 IN. BREF: 936.6900 IN. YREF: 1076.4800 IN. ZREF: 400.0000 IN. SCALE: .0150

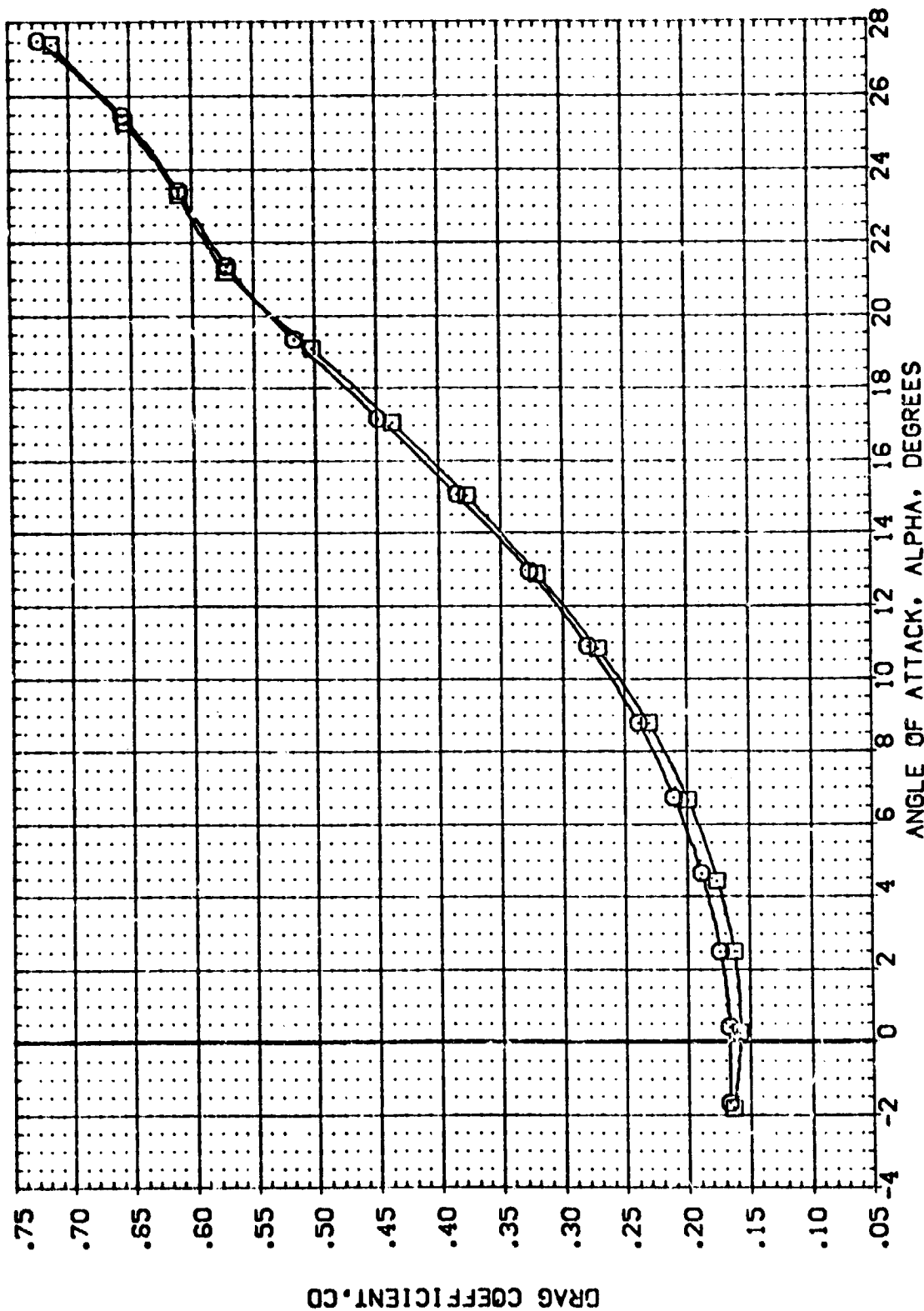


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

REFERENCE INFORMATION		50 FT.
SREF	2850.0700	IN.
LREF	474.8030	IN.
	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE



```
{C}MACH = 2.00
```

DATA SET SYMBOL: (XBT004) (RST027)

CONFIGURATION DESCRIPTION:
 AYES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5
 AYES 66-706 OA43 B10 CS D7 M3 F4 V88E18 V5K5

BOOFLP: -14.200
 ELEVON: .000
 SPOBRK: 54.900
 RUDDER: .000

REFERENCE INFORMATION:
 SREF: 2630.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6600 IN.
 XWRP: 1076.4800 IN.
 YWRP: .0000 IN.
 ZWRP: 400.0000 IN.
 SCALE: .0150

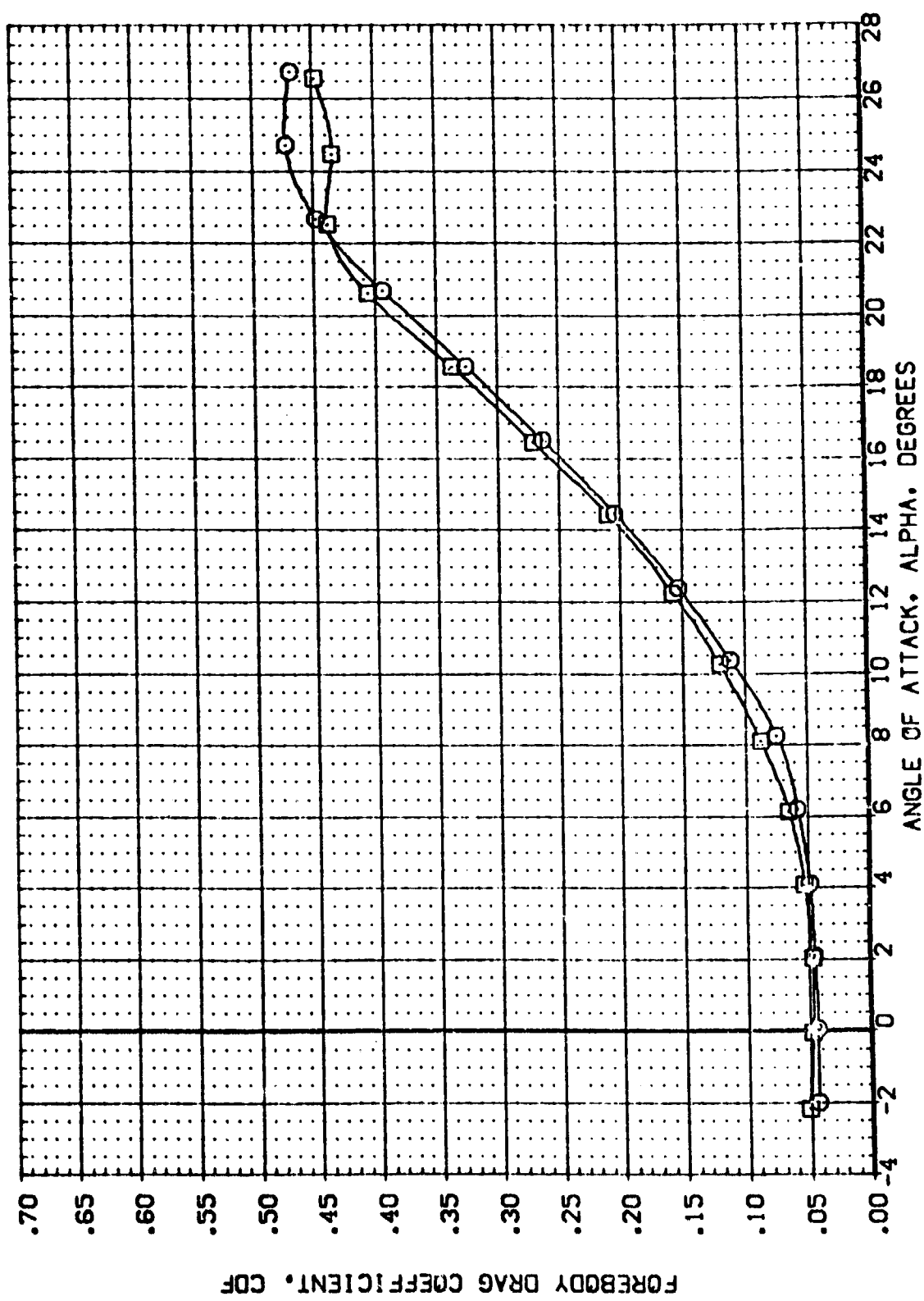


FIG. 6 WING CAMBER EFFECT
 (A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION			
(XBT004)	(RBT027)	AM'S 66-706	0A43	B10	CS	D7	M3	F4	V87E18	V5F5	-14.200	.000	.000	54.900	.000	.000	SREF	2690.0000	50. FT.				
		AM'S 66-706	0A43	B10	CS	D7	M3	F4	V88E18	V5F5	-14.200	.000	.000	54.900	.000	.000	LREF	474.8000	IN.				
																	BREF	936.6800	IN.				
																	XREF	1076.4800	IN.				
																	YREF	.0000	IN.				
																	ZREF	400.0000	IN.				
																	SCALE	.0150	SCALE				

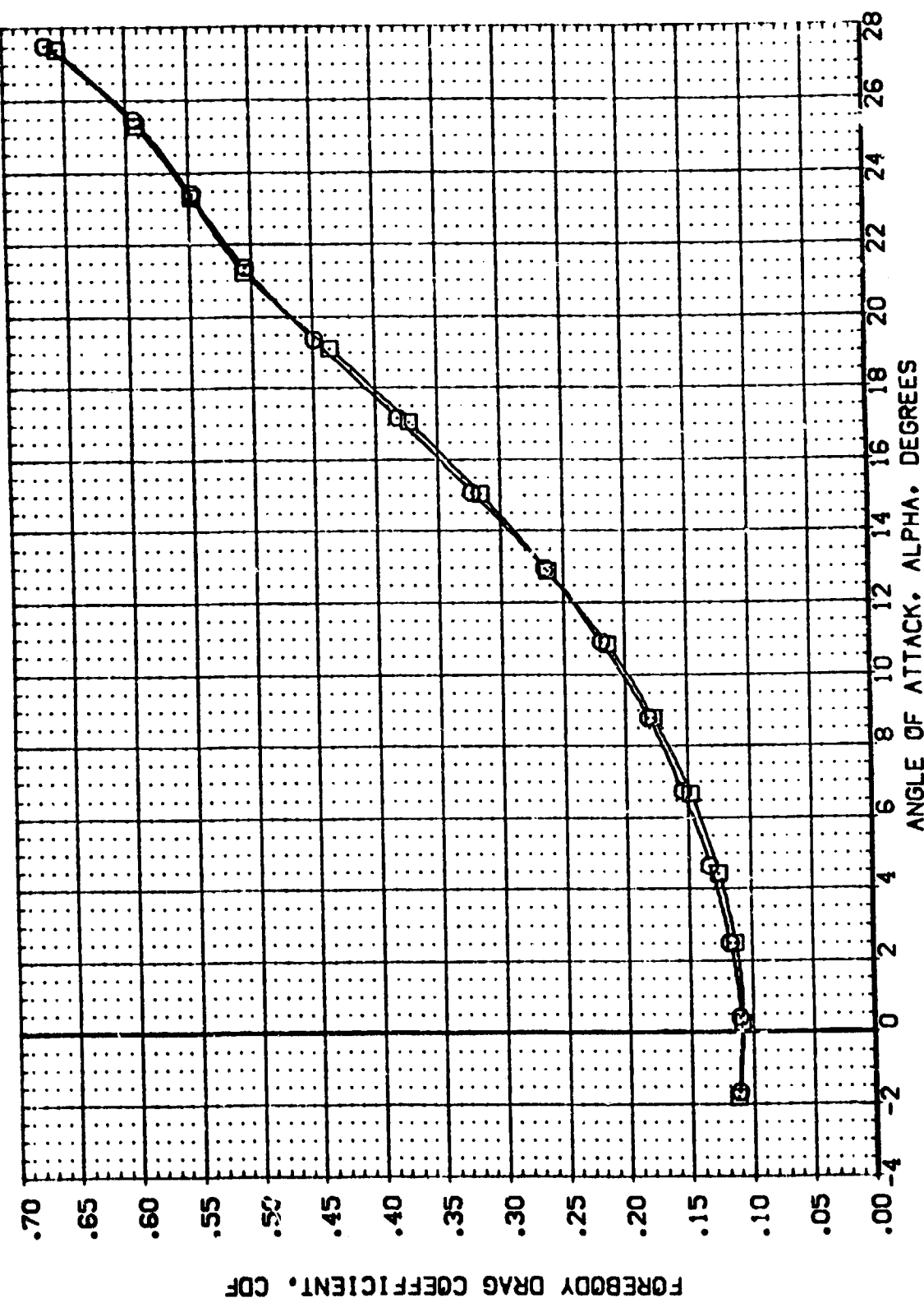


FIG. 6 WING CAMBER EFFECT

(B)MACH = :.20

DATA SET SYMBOL										CONFIGURATION DESCRIPTION										REFERENCE INFORMATION									
[XBT004]										A-ES 66-706 0A13 B10 CS D7 M3 F4 V87E18 V5M5										SREF 2630.0000 92.FT.									
[RBT027]										A-ES 66-706 0A13 B10 CS D7 M3 F4 V88E1R V5M5										LREF 474.8000 IN.									
																				BREF 936.6000 IN.									
																				X-APP 1076.4000 IN.									
																				Y-APP 400.0000 IN.									
																				Z-APP 400.0000 IN.									
																				SCALE .0150 SCALE									

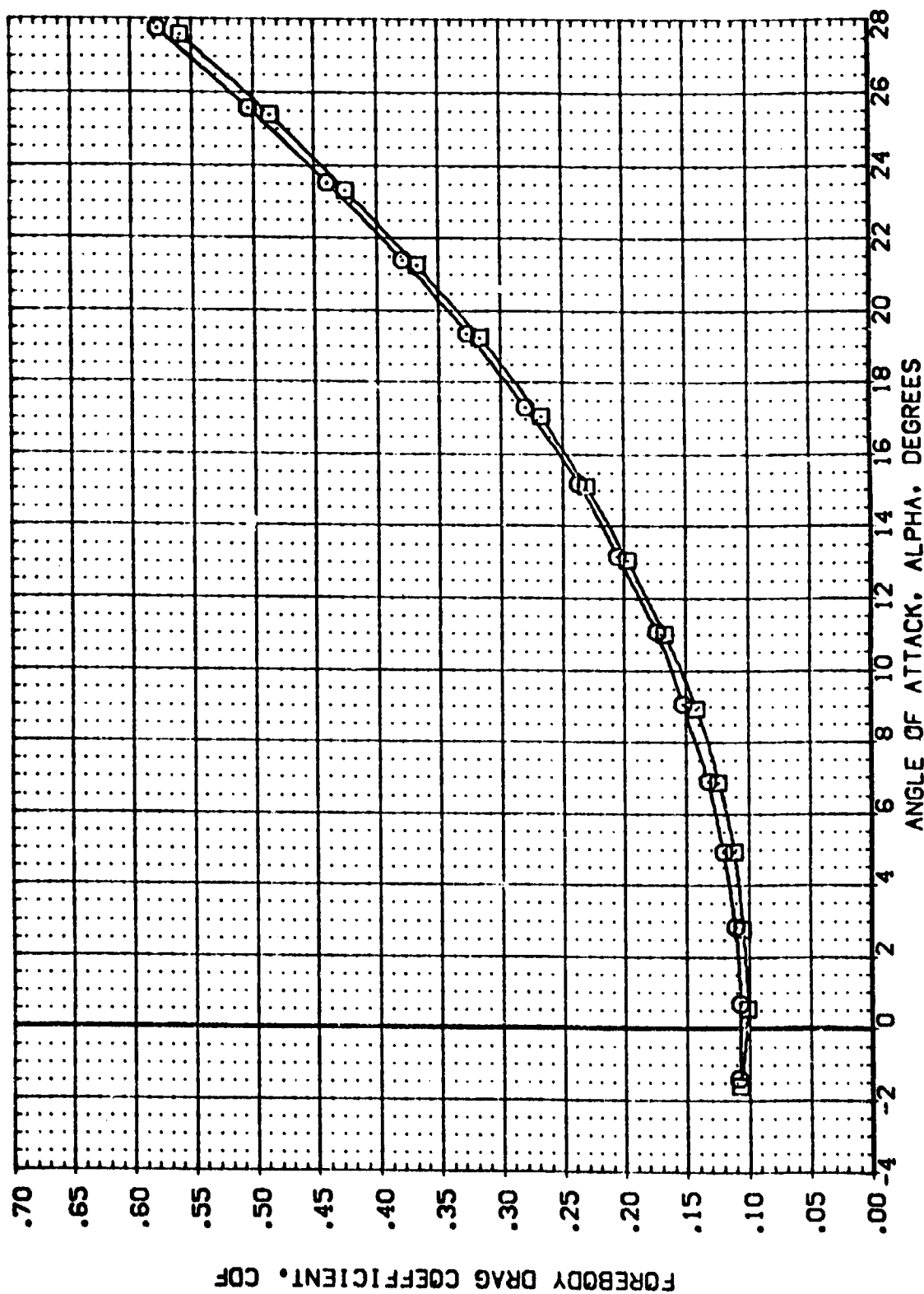


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL: (XBT004) (RST027)

CONFIGURATION DESCRIPTION: AVES 68-706 0413 810 05 07 H3 F4 107E18 V5R5
 AVES 68-706 0413 810 05 07 H3 F4 108E18 V5R5

BOOPLP: -14.200
 ELEVON: .000
 SPOBRK: 54.500
 RUDDER: .000

REFERENCE INFORMATION: SREF: 2680.0000 SC.FT.
 LREF: 474.8000 IN.
 BREF: 936.8000 IN.
 XREF: 1076.1800 IN.
 YREF: .0000 IN.
 ZREF: 400.0000 IN.
 SCALE: .0150

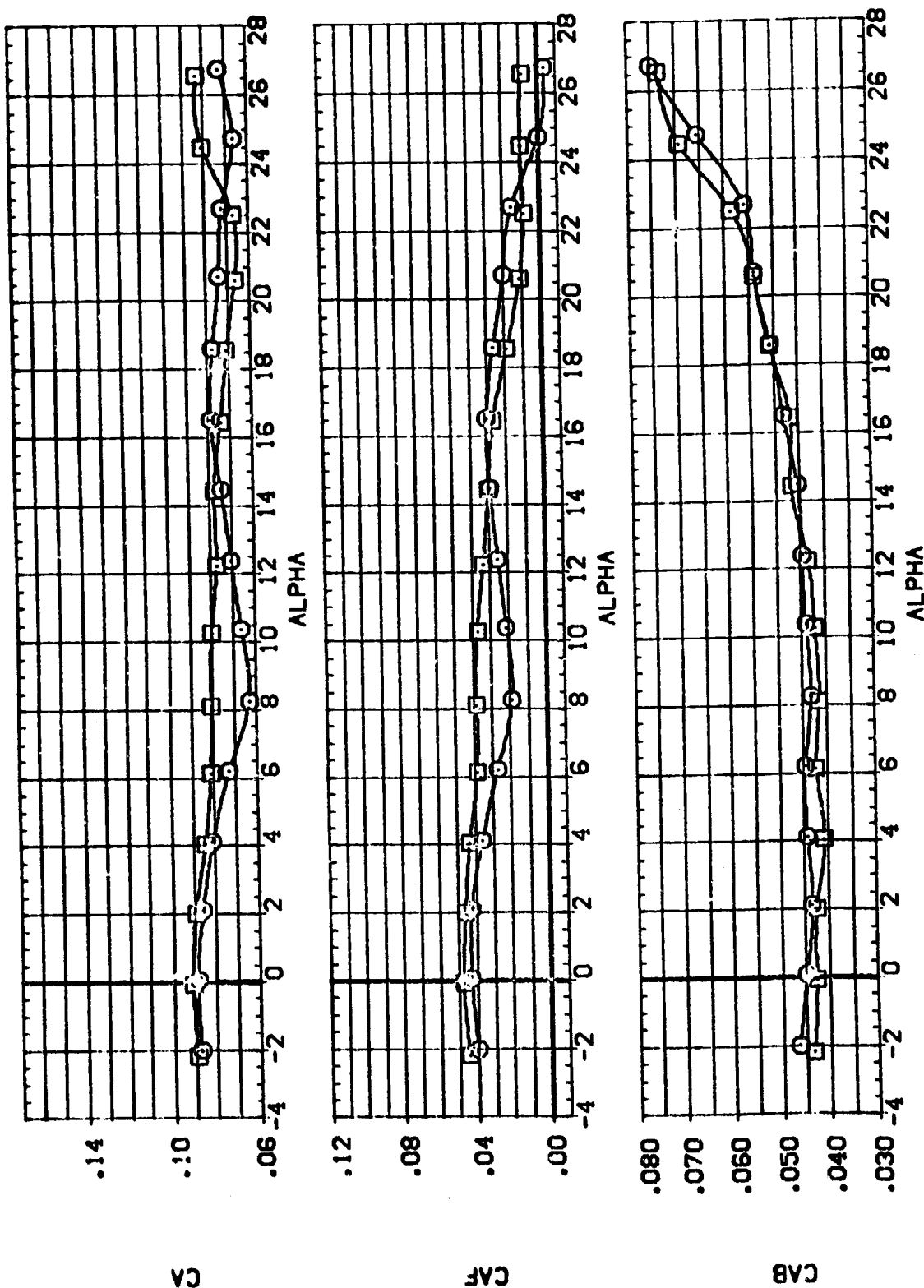


FIG. 6 WING CAMBER EFFECT

CA/MACH = .60

DATA SET SYMBOL: XBT0004 (RBT027)

CONFIGURATION DESCRIPTION: APES 66-706 QAM3 B10 CS 07 M3 F4 V67E18 VSRS APES 66-706 QAM3 B10 CS 07 M3 F4 V68E18 VSRS

BOUFLP: -14.200
ELEVON: .000
SPORCK: 54.900
RUDDER: .000

REFERENCE INFORMATION: SREF 2650.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XREF 1075.4800 IN. YREF .0000 IN. ZREF 400.0000 IN. SCALE .0150

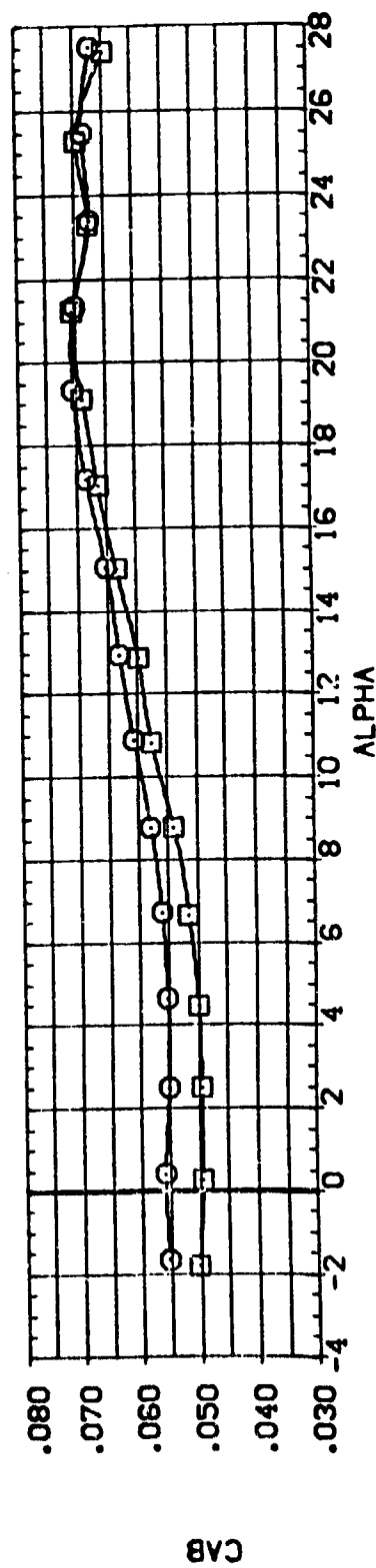
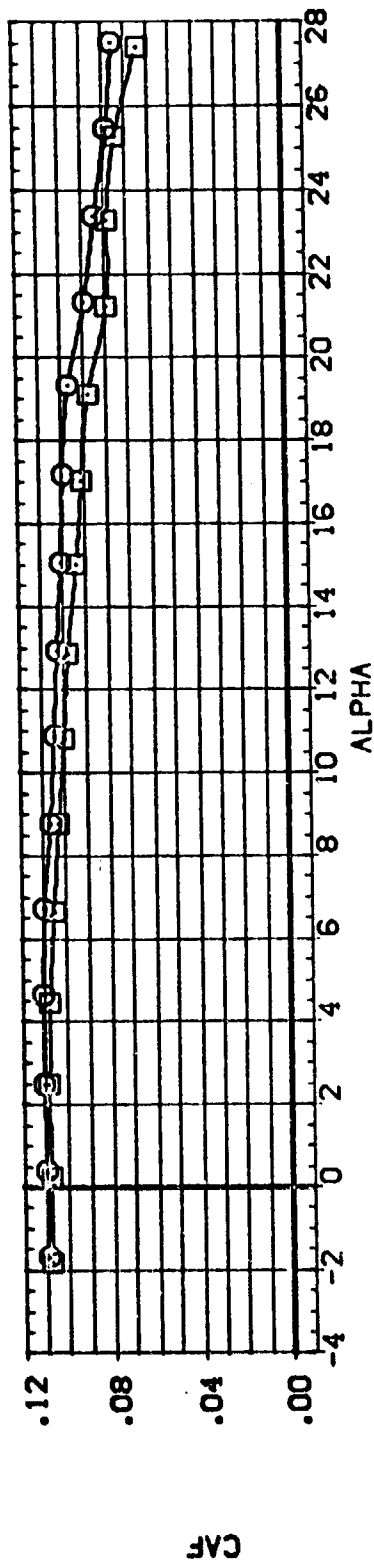
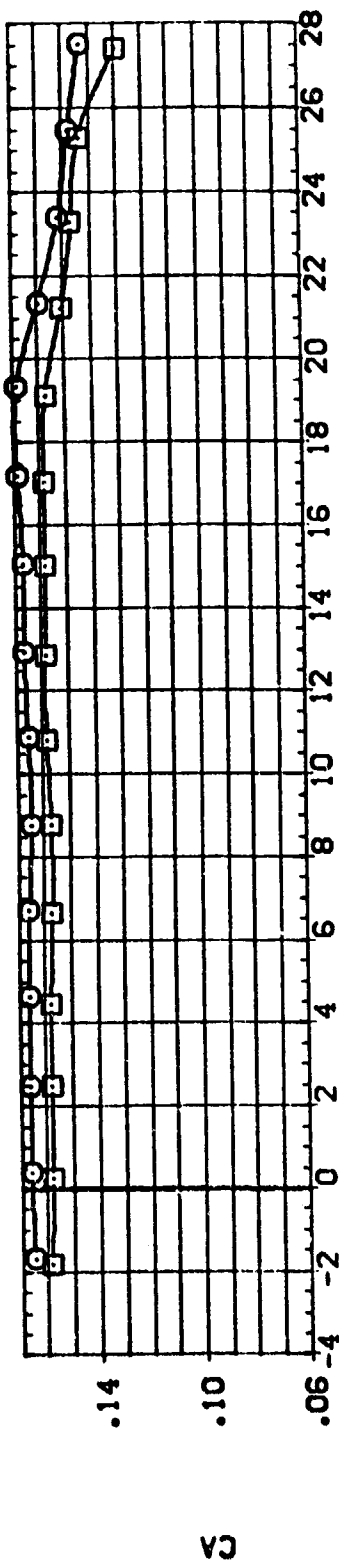


FIG. 6 WING CAMBER EFFECT
(B)MACH = 1.20

DATA SET SYMBOL: (XBT004) (RBT027)

CONFIGURATION DESCRIPTION
 ASES 66-706 0M3 B10 CS D7 M3 F4 V87E18 V5R5
 ASES 66-706 0M3 B10 CS D7 M3 F4 V88E18 V5R5

BOEFLP ELEVON SPOBRK RUDDER
 -14.200 .000 .000 .000
 -14.200 .000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 X-GRP 1076.1800 IN.
 Y-GRP .0000 IN.
 Z-GRP 400.0000 IN.
 SCALE .0150

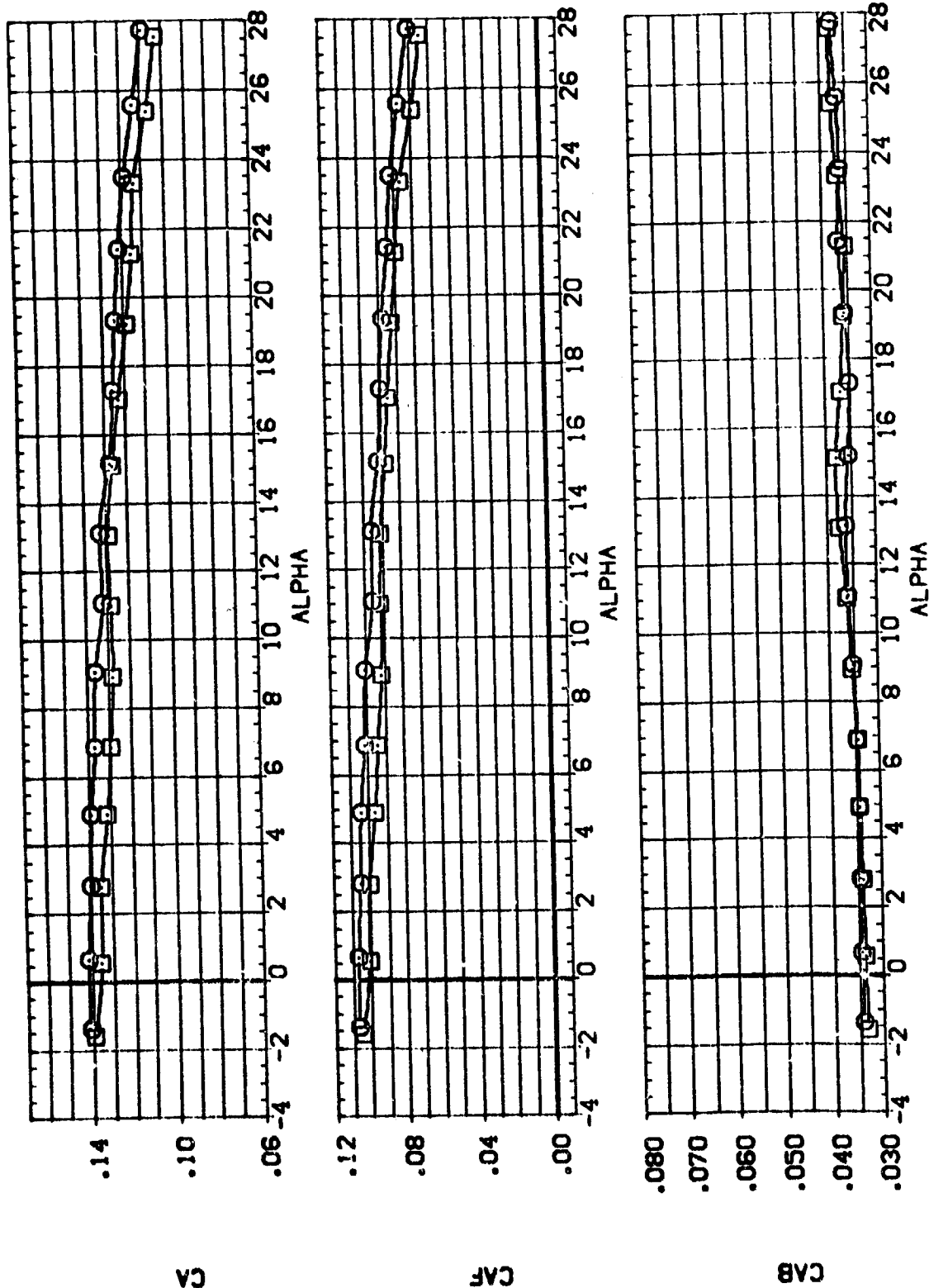


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(X97004)	AVES 66-70S 0A43 810 CS 07 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(R97027)	AVES 66-70S 0A43 810 CS 07 M3 F4 V88E18 V945	-14.200	.000	54.900	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						YMRP	1076.4800 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150

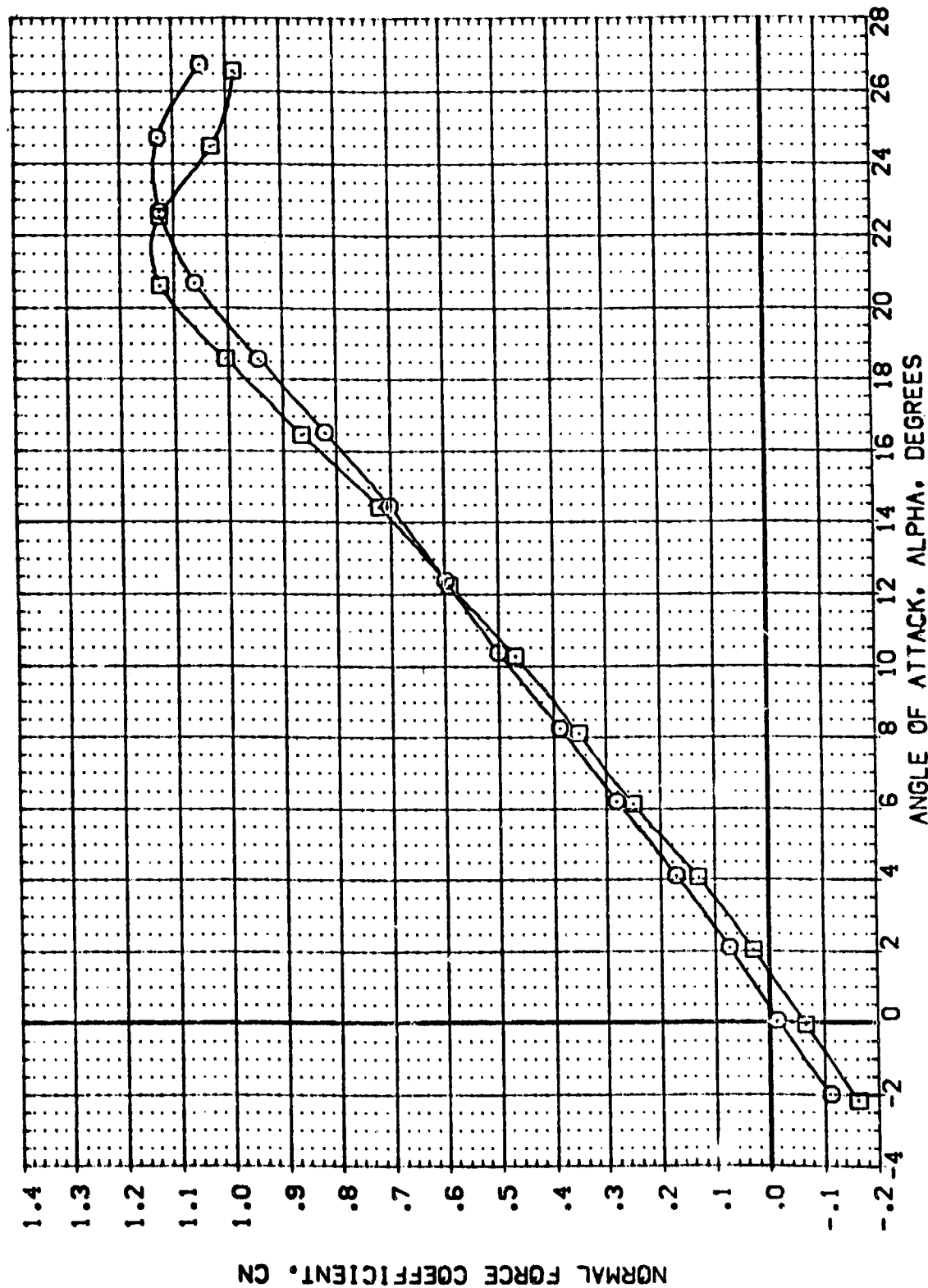


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ELEVON		SPORON		RUDDER		REFERENCE INFORMATION			
[XBT004]	[XBT027]	AVES 66-706	DA13	B10	CS	07	M3	F4	V87E18	VSR5								SREF	2690.0000	50. FT.	
		AVES 66-706	DA13	B10	CS	07	M3	F4	V88E18	VSR5								LREF	474.8000	IN.	
																		BREF	936.6900		
																		XMRP	1076.4800		
																		YMRP	.0000		
																		ZMRP	400.0000		
																		SCALE	.0150	SCALE	

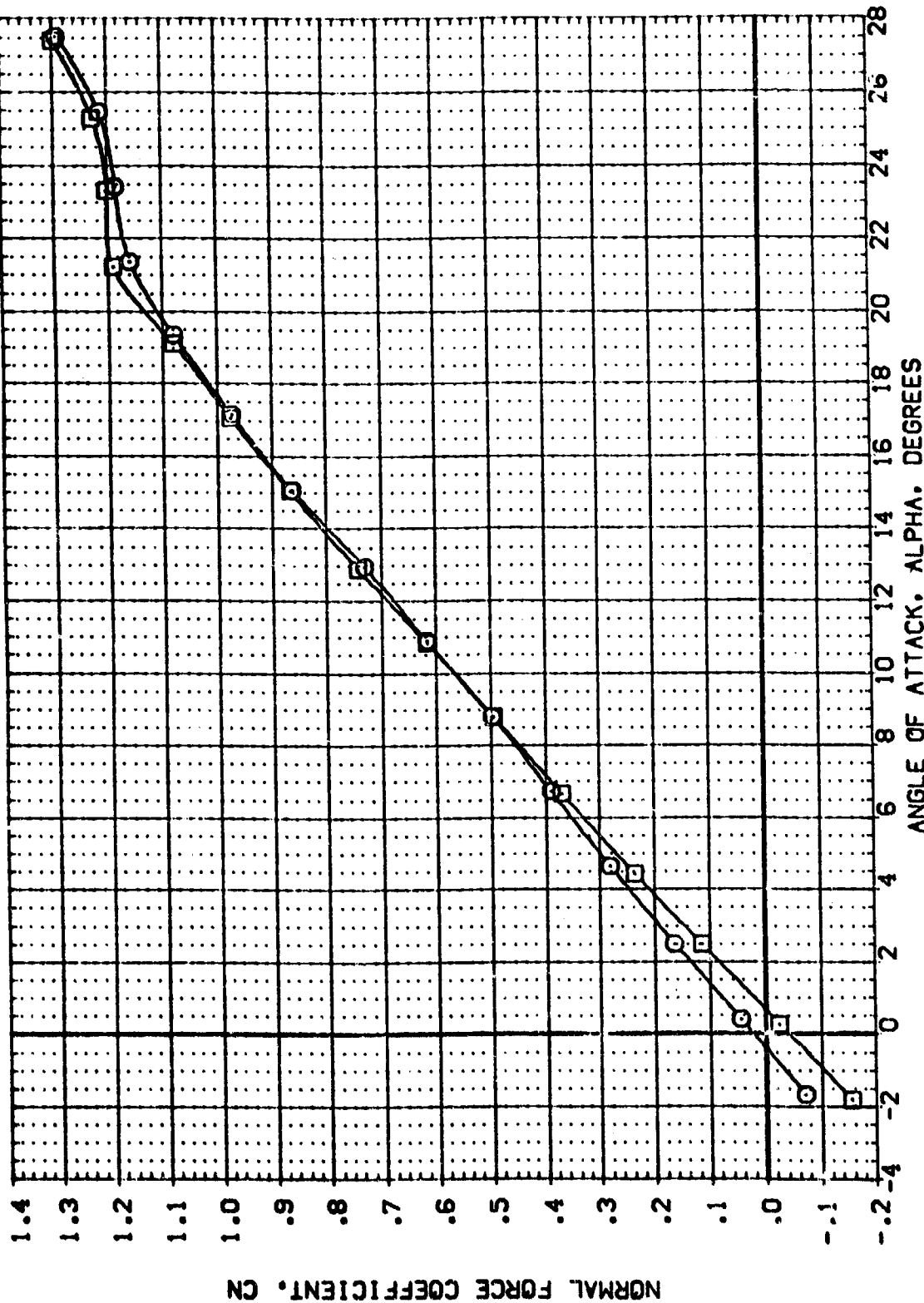


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION			
(X8TDC4)	Q	AVES 66-706	CA43	B10	C5	D7	F3	F4	V87E18	V505	-14.200	.000	.000	.000	2690.0000	SG.FT.							
(X8TDC7)		AVES 66-706	CA43	B10	C5	D7	F3	F4	V83E18	V505	-14.200	.000	.000	.000	474.8000	IN.							
															936.6800	IN.							
															1076.4800	IN.							
															400.0000	IN.							
															400.0000	IN.							
															SCALE	.0150							

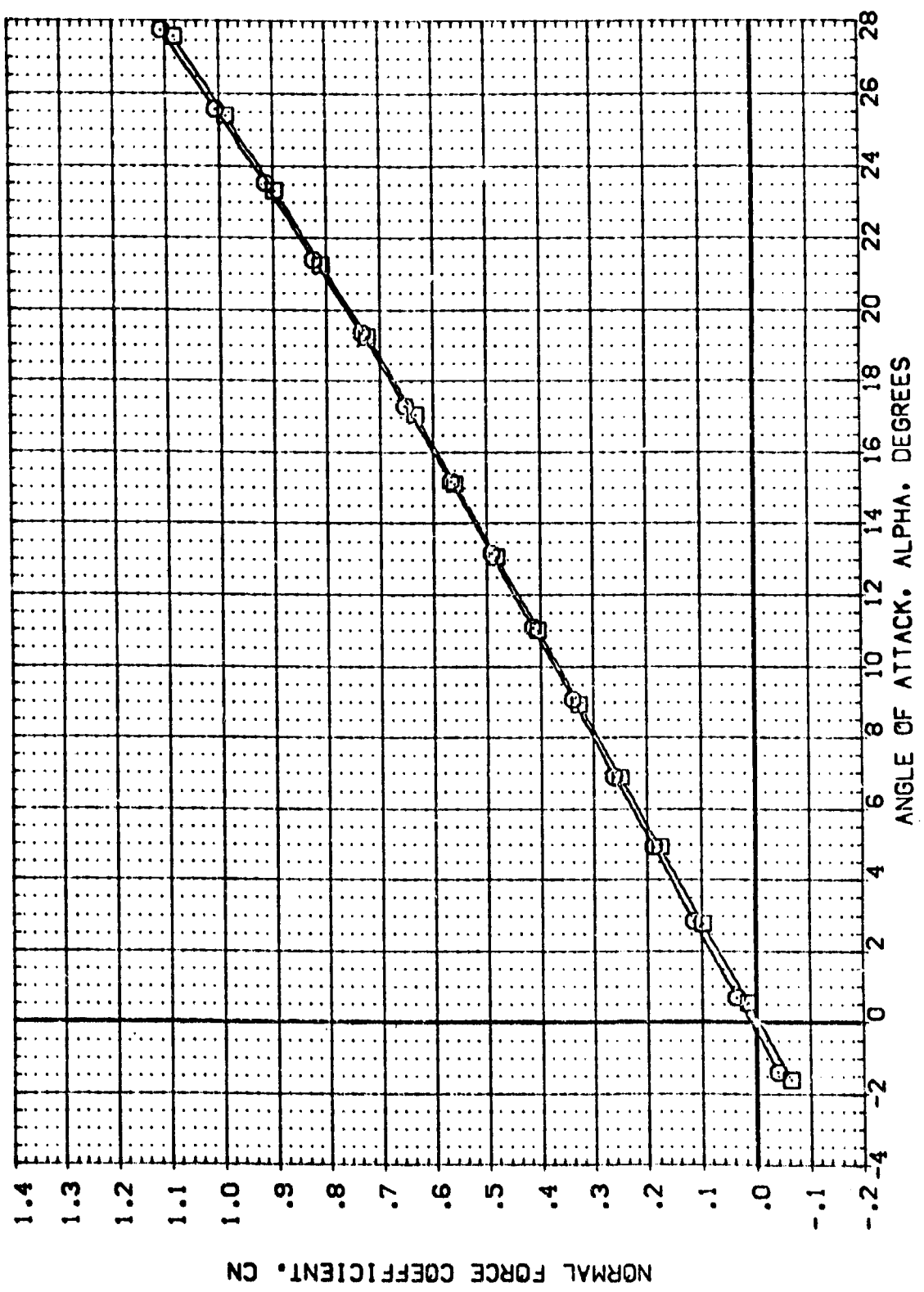


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL: (X81004) (R81027)

CONFIGURATION DESCRIPTION: AVES 66-706 0A13 B10 CS 07 M3 F4 V87E18 VSRS
AVES 66-706 0A13 B10 CS 07 M3 F4 V88E18 VSRS

BOOFLP: -14.200
ELEVON: .000
SPOBRK: 54.900
RUDDER: .000

REFERENCE INFORMATION: SREF: 2690.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XMRP: 1076.4800 IN.
YMRP: .0000 IN.
ZMRP: 400.0000 IN.
SCALE: .0150

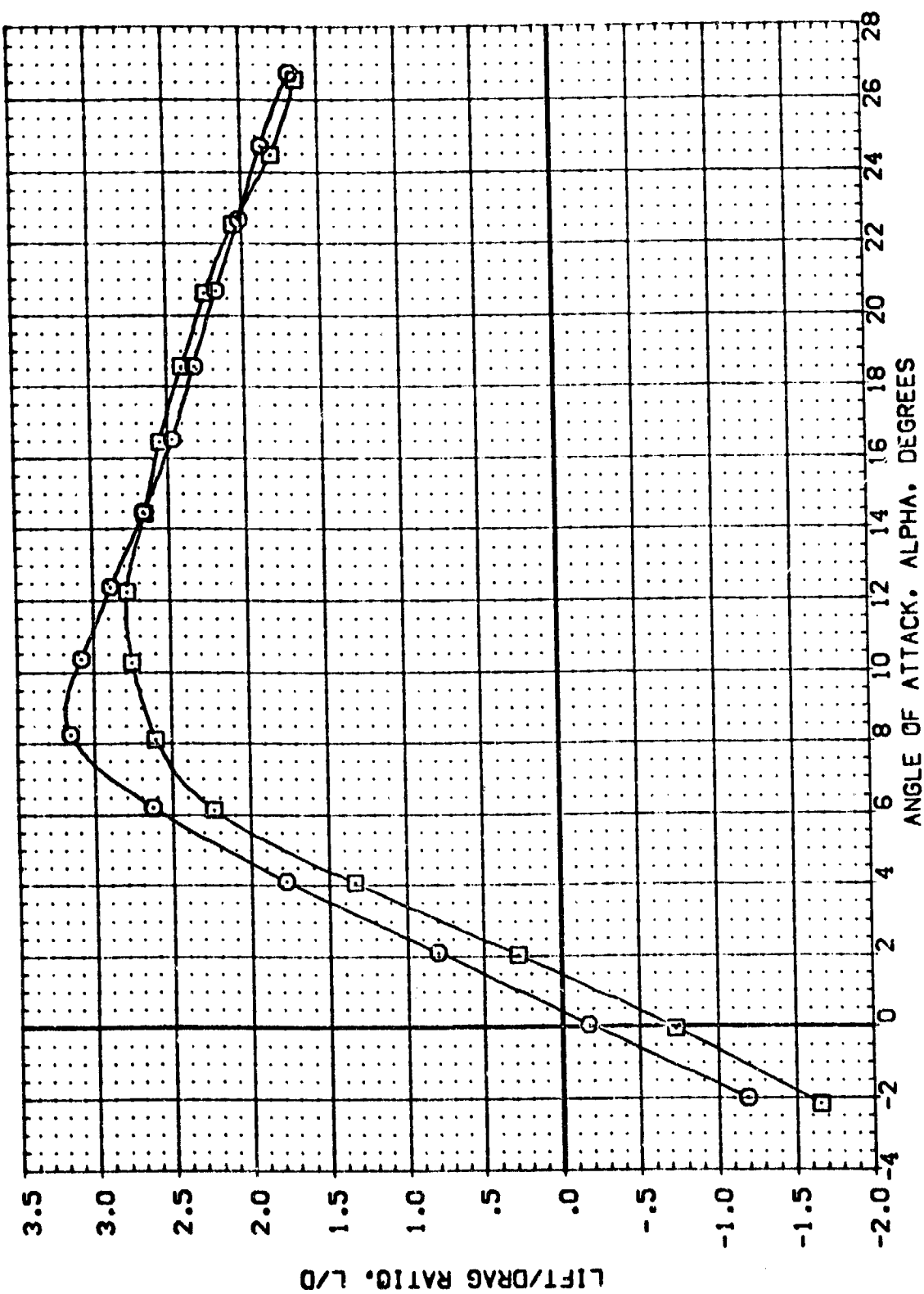


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(X87024)	AMES 66-706 DM13 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(X87027)	AMES 66-706 DM13 B10 C5 D7 M3 F4 V88E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

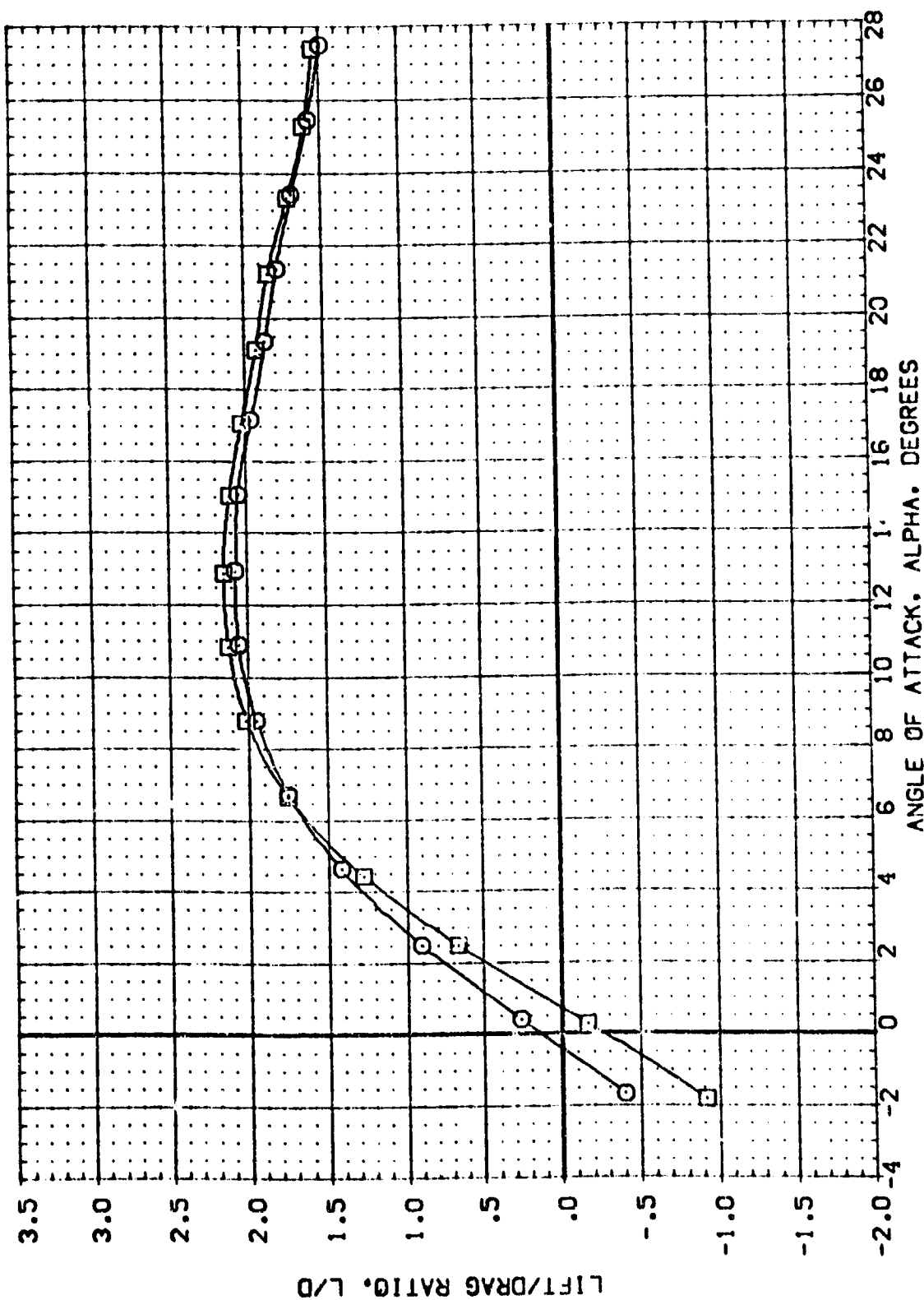


FIG. 6 WING CAMBER EFFECT
(B)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										RODGER		REFERENCE INFORMATION			
(VST004)	(RST027)	AVES 66-706	CA43	B10	CS	D7	MG	F4	V8TE18	VSR5	800FLP	ELEVON	SPDRX	SREF	2690.0000	SQ.FT.	
		AVES 66-706	CA43	B10	CS	D7	MG	F4	V8BE18	VSR5	-14.200	.000	54.900	LREF	474.8000	IN.	
											-14.200	.000	54.900	BREF	936.6800	IN.	
														XMRP	1076.1800	IN.	
														YMRP	.0000	IN.	
														ZMRP	400.0000	IN.	
														SCALE	.0150	SCALE	

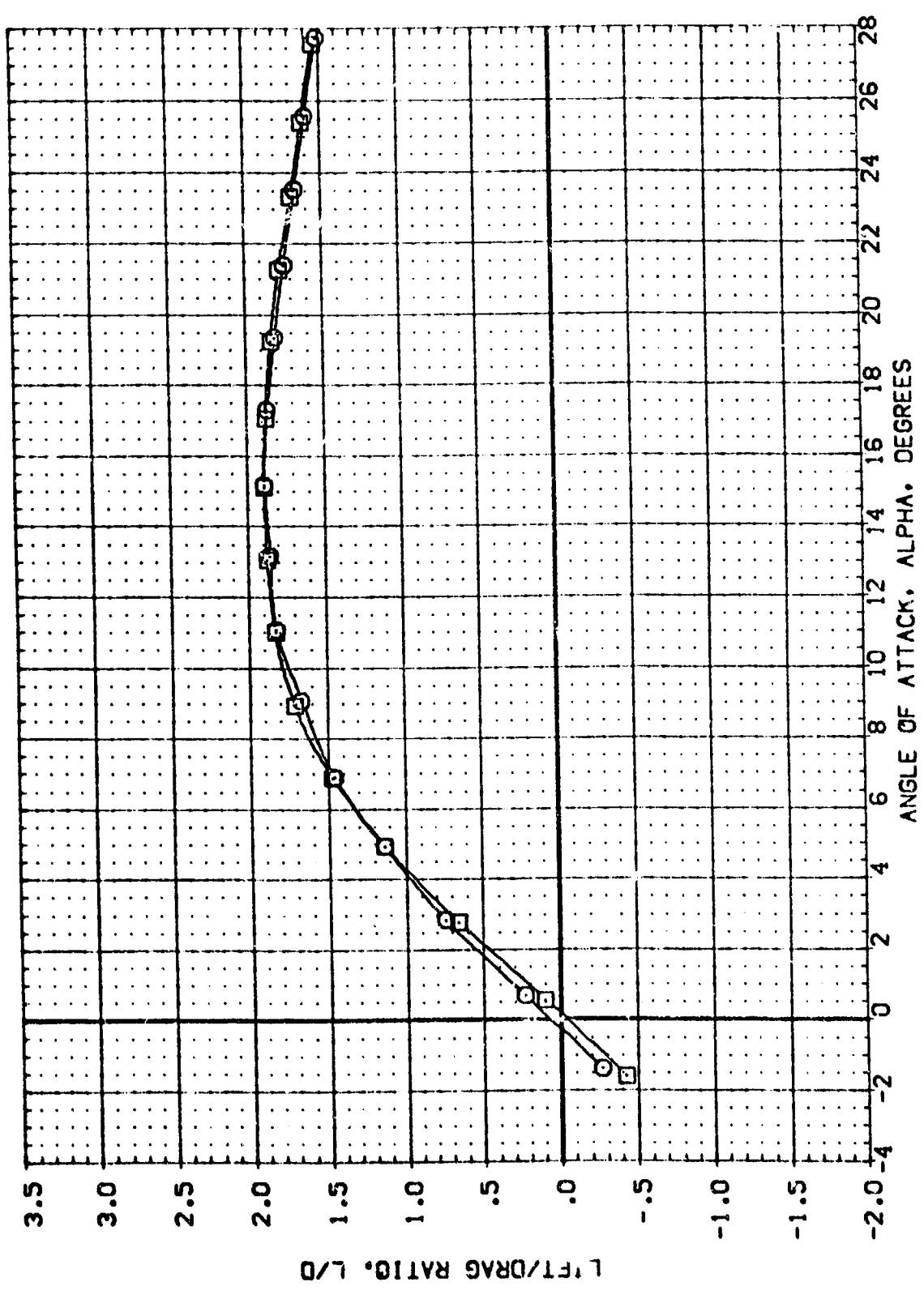


FIG. 6 WING CAMBER EFFECT
(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
[XBT004]	9	AMES 66-705 OA43 B10 CS D7 H3 F4	V87E18 V5R5	-14.200	.000	54.900	.000	.000	.000	SREF	2690.0000	50. FT.	
[R9127]		AMES 66-705 OA43 B10 CS D7 H3 F4	V88E18 V5R5	-14.200	.000	54.900	.000	.000	.000	LREF	474.8000	IN.	
										SREF	936.6000	IN.	
										XPRP	1076.1800	IN.	
										YPRP	100.0000	IN.	
										ZPRP	100.0000	IN.	
										SCALE	.0150	SCALE	

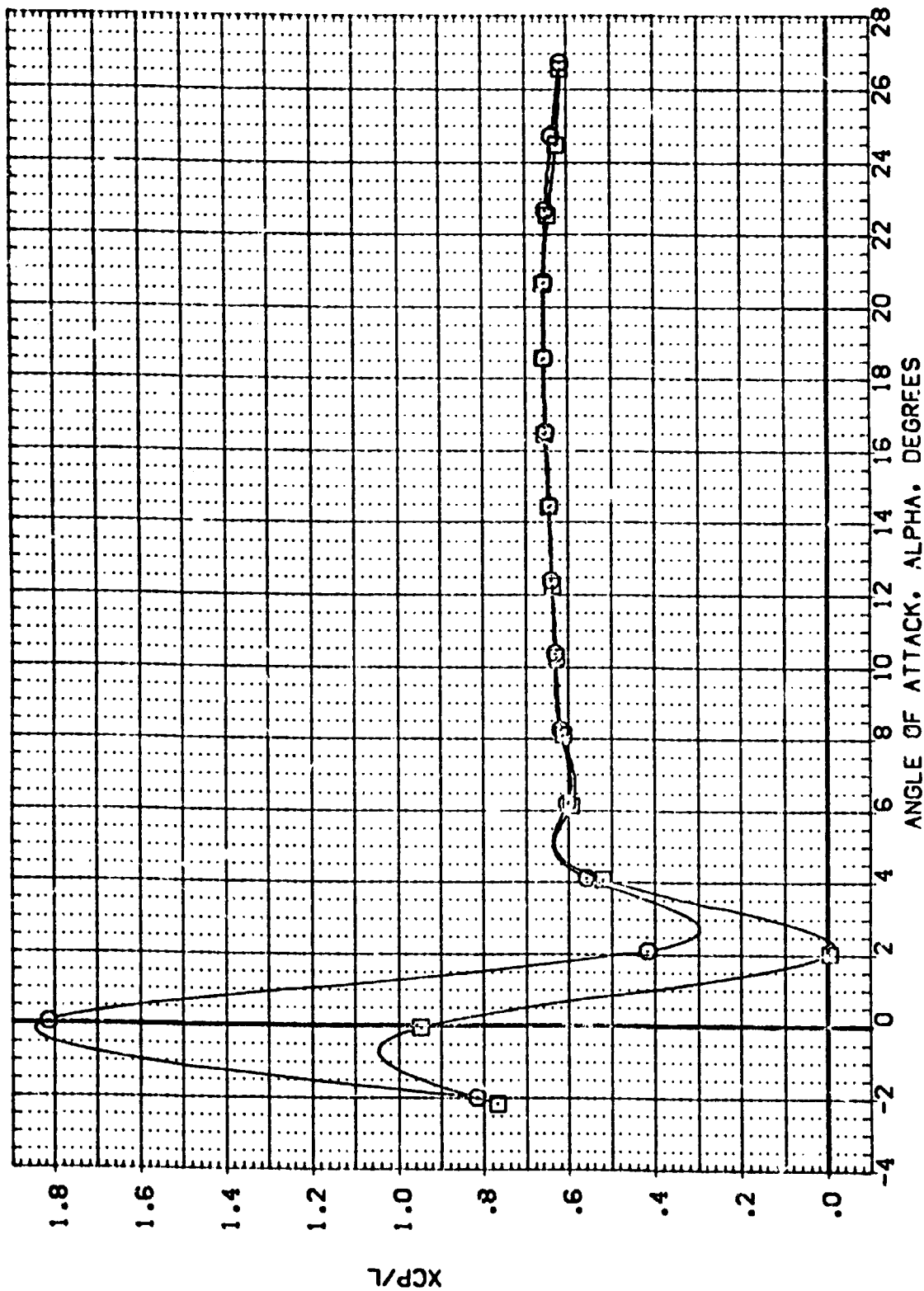


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION				
[XBT004]		AVES 66-706 CA13 B10 C5 D7 M3 F4 V87E18 VSR5										SPREF 2690.0000 SQ.FT.				
[RBT027]		AVES 66-706 CA13 B10 C5 D7 M3 F4 V88E18 VSR5										LREF 474.8000 IN.				
												BREF 936.6800 IN.				
												XREF 1076.4800 IN.				
												YREF .0000 IN.				
												ZREF 400.0000 IN.				
												SCALE .0150				

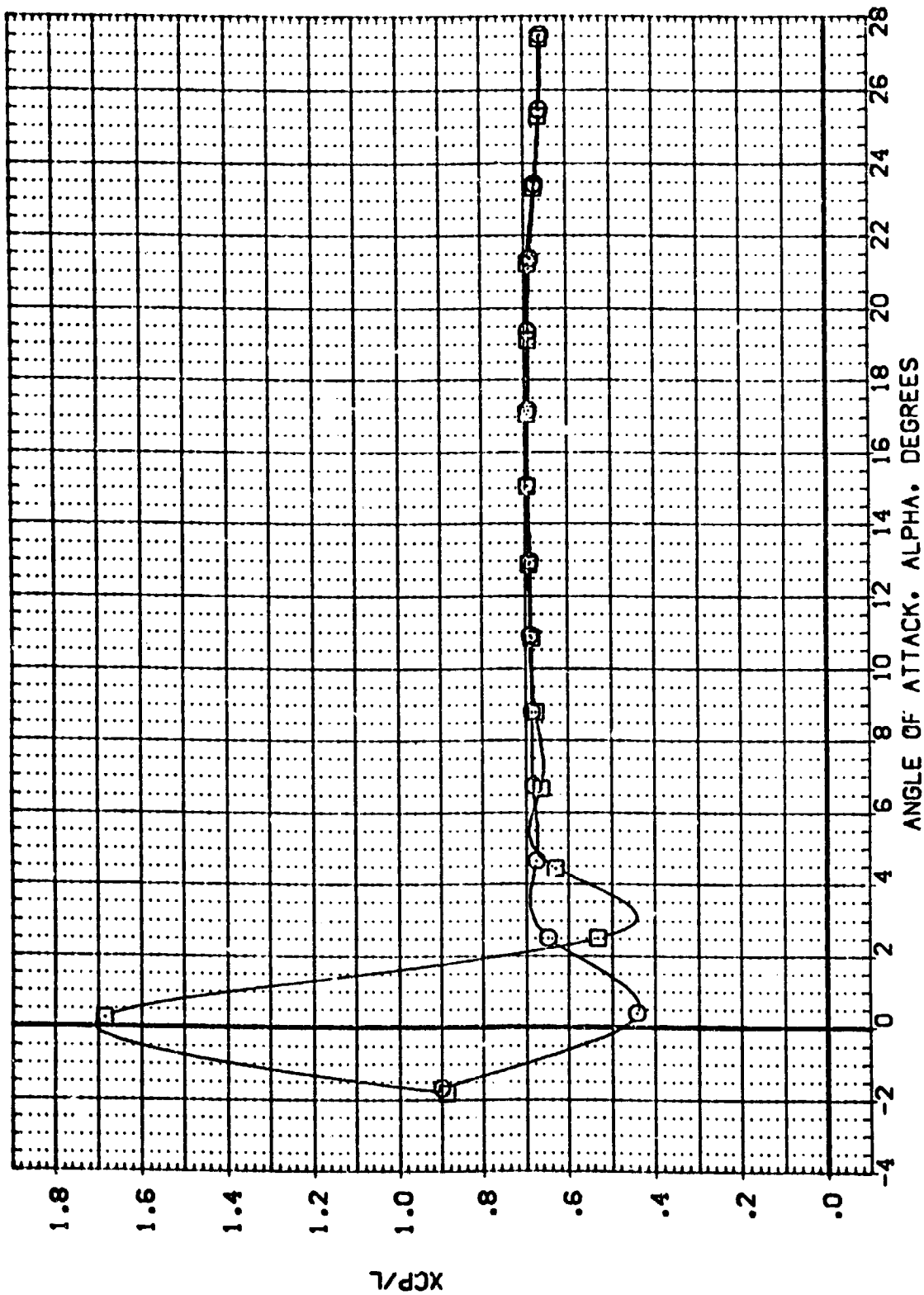


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(XBT004)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT027)	AVES 66-706 DA13 B10 CS D7 M3 F4 V88E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000
						ZMRP .0000
						SCALE .0150

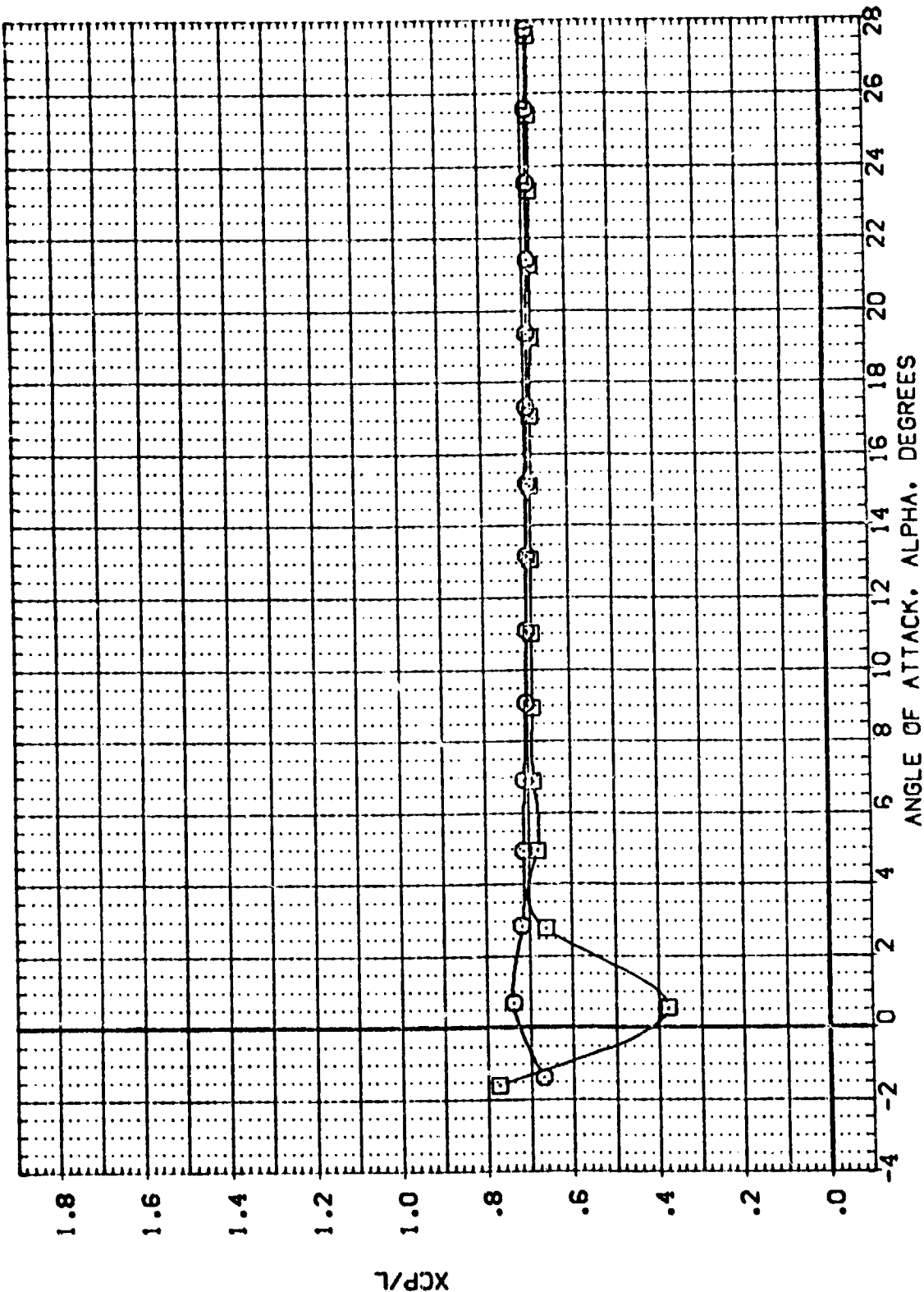


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL: [XB1004] [RB1027] CONFIGURATION DESCRIPTION: AHS 66-708 DA43 B10 CS D7 M3 F4 V87E17 VSRS AHS 66-708 DA43 B10 CS D7 M3 F4 V88E18 VSRS

BOOFLP: -14.200 ELEVON: .000 SPOBRN: .000 RUDDER: .000

REFERENCE INFORMATION: SREF: 2650.0000 SQ.FT. LREF: 474.8000 IN. BREF: 936.6800 IN. XTRP: 1076.4800 IN. YTRP: .0000 IN. ZTRP: 400.0000 IN. SCALE: .0150

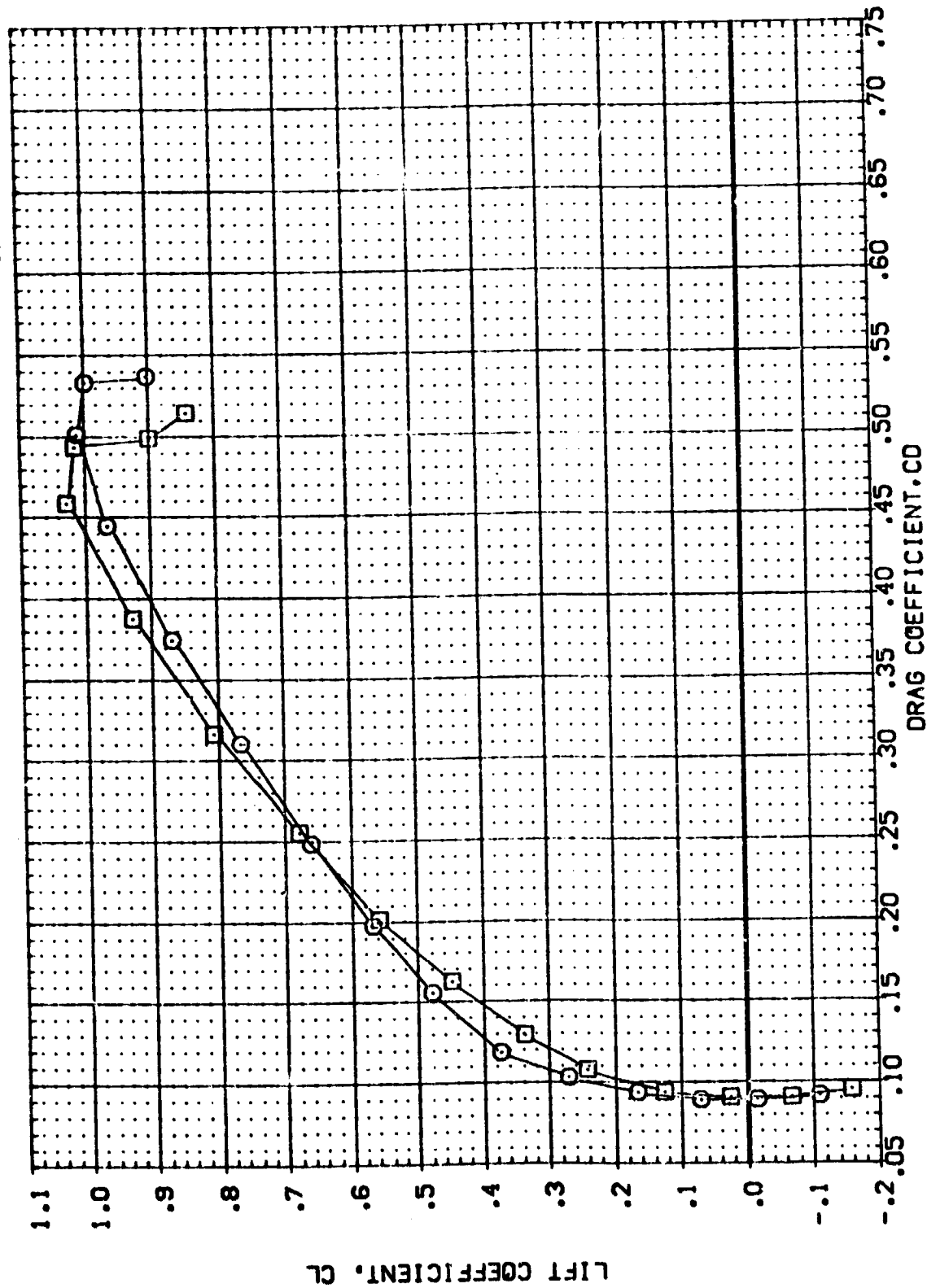


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL: [XBT004] [RB0077] CONFIGURATION DESCRIPTION: ASES 66-706 0413 810 CS D7 M3 F4 V87E18 VSRS ASES 66-706 0413 810 CS D7 M3 F4 V82E18 VSRS

BOOFLP	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION	
-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
-14.200	.000	54.900	.000	LREF	474.8000 IN.
				BREF	936.6800 IN.
				XPRP	1076.4800 IN.
				YPRP	.0000 IN.
				ZPRP	400.0000 IN.
				SCALE	.0150

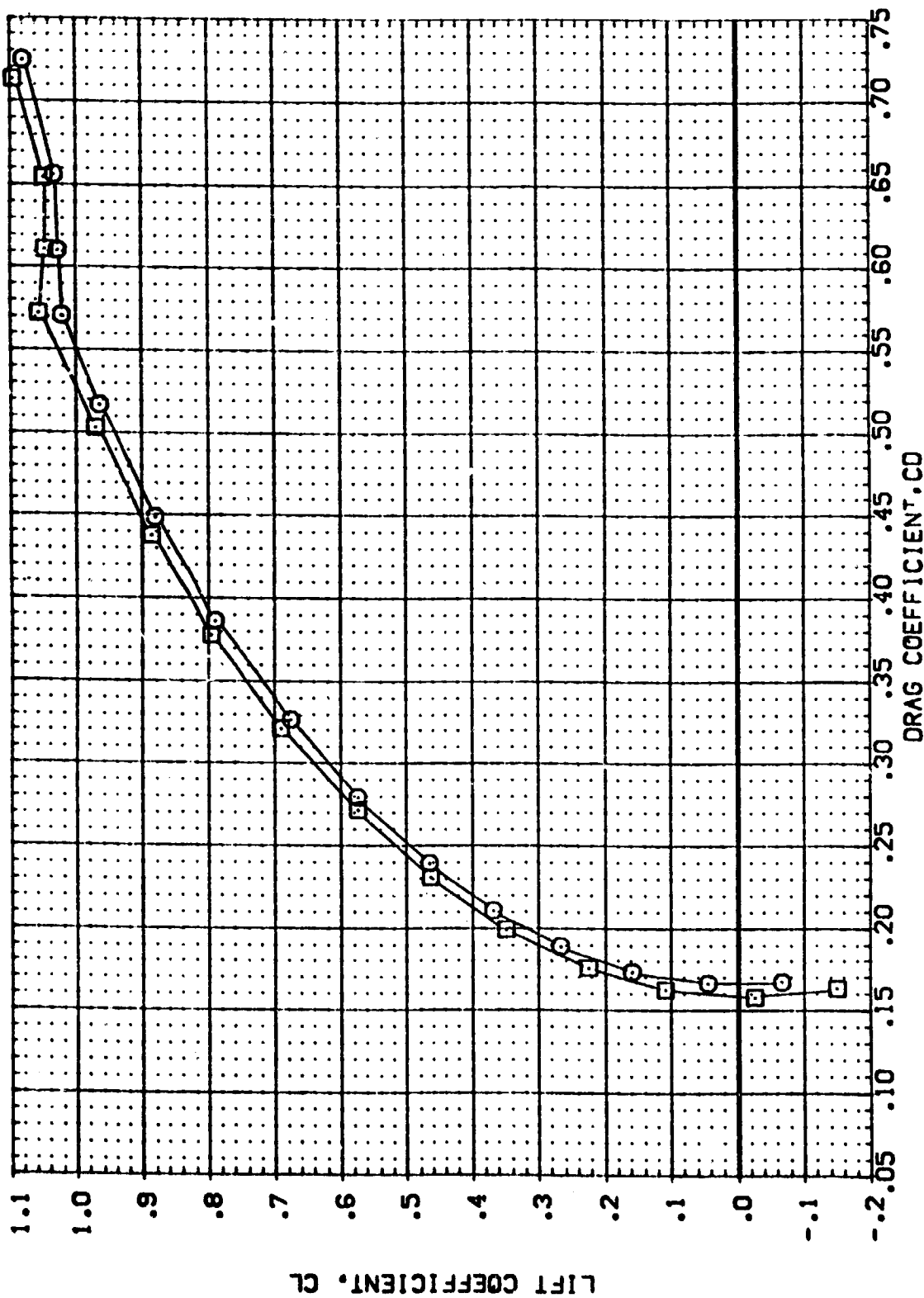


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

DATA SET SYMBOL: 9
 CONFIGURATION DESCRIPTION: AYES 66-706 8A43 810 CS D7 M3 F4 V87E18 VSRS
 (RBT004) AYES 66-706 8A43 810 CS D7 M3 F4 V88E18 VSRS
 (RBT027)

BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
-14.200	.000	54.500	.000	SREF 2630.0000 SQ.FT.
-14.200	.000	54.500	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XVGRP 1076.4800 IN.
				YVGRP .0000 IN.
				ZVGRP .0000 IN.
				SCALE 400.0000
				SCALE .0150

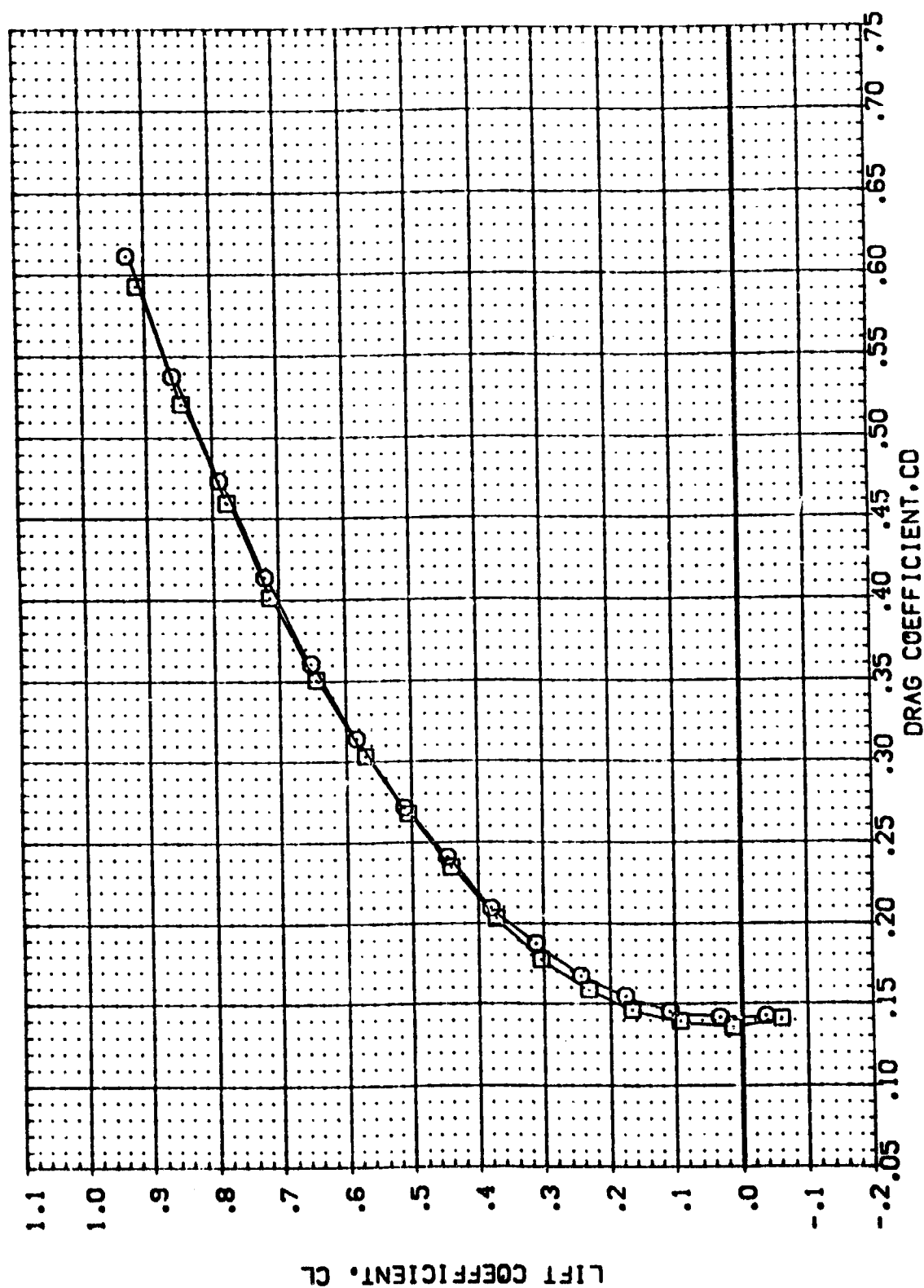


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION			
[X87004]	[X87004]	AVES 66-706	DM3	B10	CS	D7	M3	F4	V87E18	V99S	-14.200	.000	.000	54.900	.000	.000	SREF	2690.0000	50. FT.				
[X87027]	[X87027]	AVES 66-706	DM3	B10	CS	D7	M3	F4	V88E18	V99S	-14.200	.000	.000	54.900	.000	.000	LREF	474.8000	IN.				
																	BREF	936.6800	IN.				
																	XMRP	1076.4800	IN.				
																	YMRP	400.0000	IN.				
																	ZMRP	400.0000	IN.				
																	SCALE	.0150	SCALE				

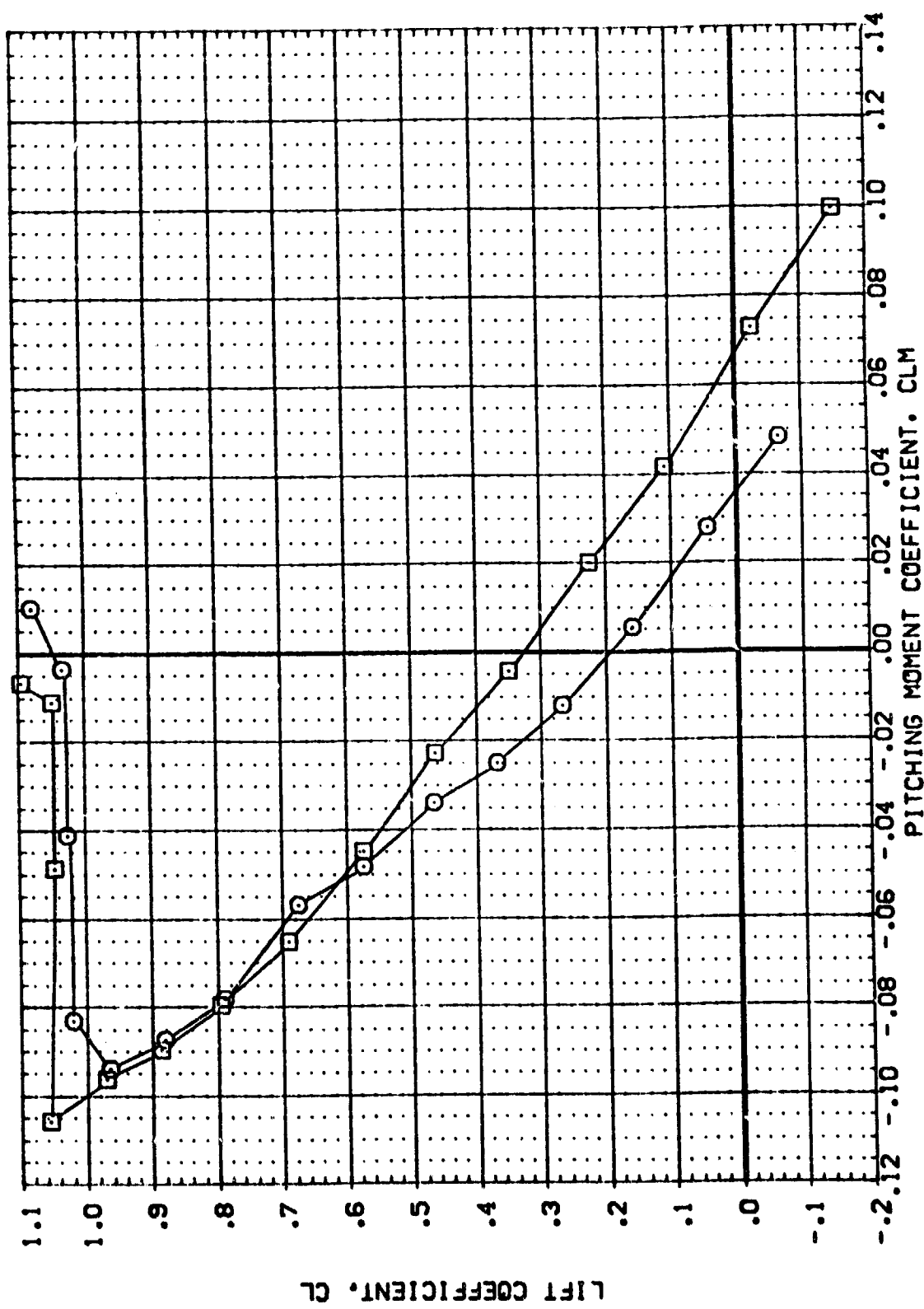


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
[X87OC4]	AMES 66-706 DM43 B10 CS 07 M3 F4 V87E18 VS75	-14.200	.000	54.500	.000	SREF 2630.0000 SQ.FT.
[R87OC27]	AMES 66-706 DM43 B10 CS 07 M3 F4 V88E18 VS75	-14.200	.000	54.500	.000	LOEF 474.8000 IN.
						BREF 936.8800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE .0150 SCALE

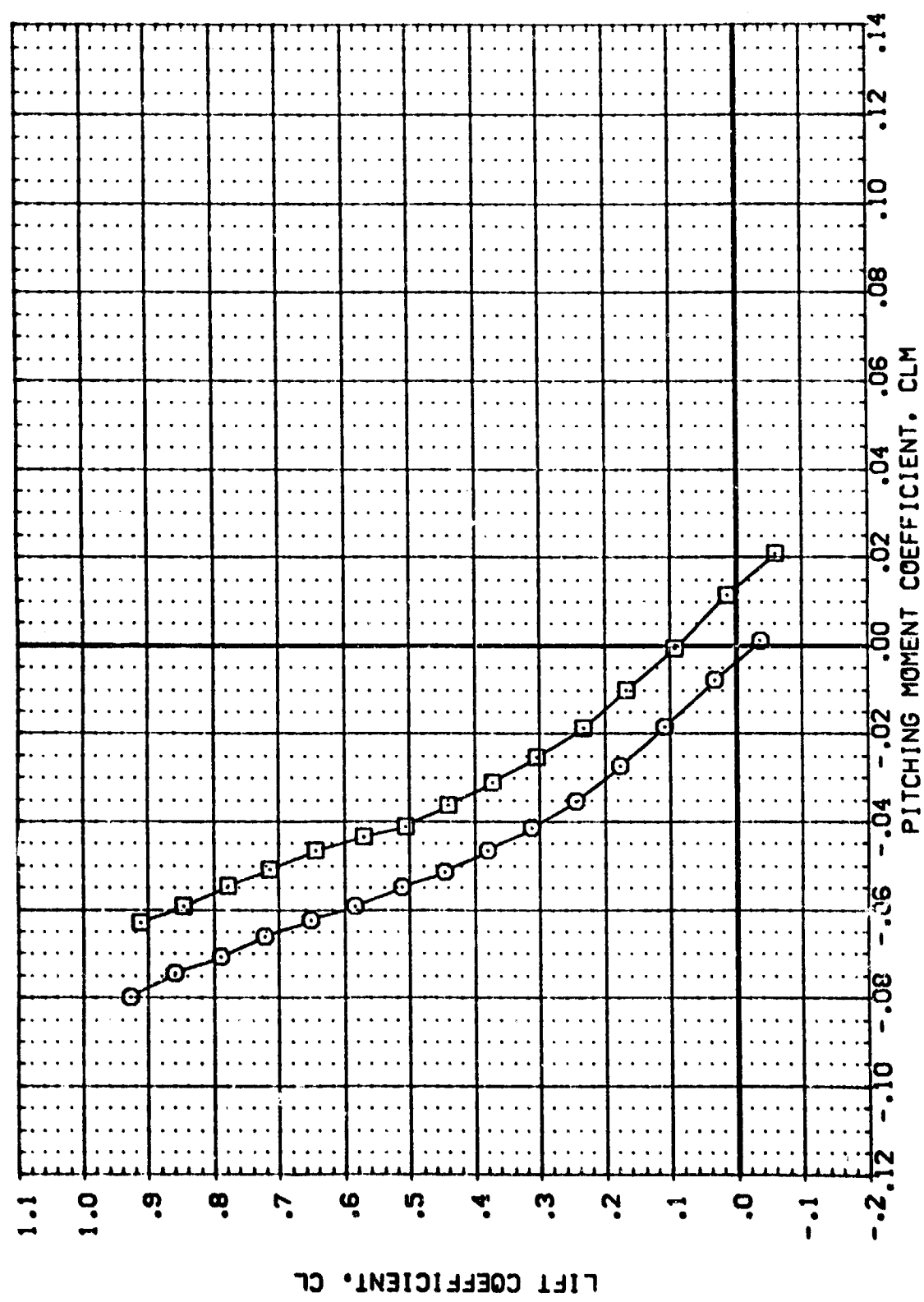


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODY LIP	ELEVON	SPOILER	RUDDER	REFERENCE INFORMATION
(XBT004)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT027)	AVES 66-706 DA13 B10 CS D7 M3 F4 V88E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

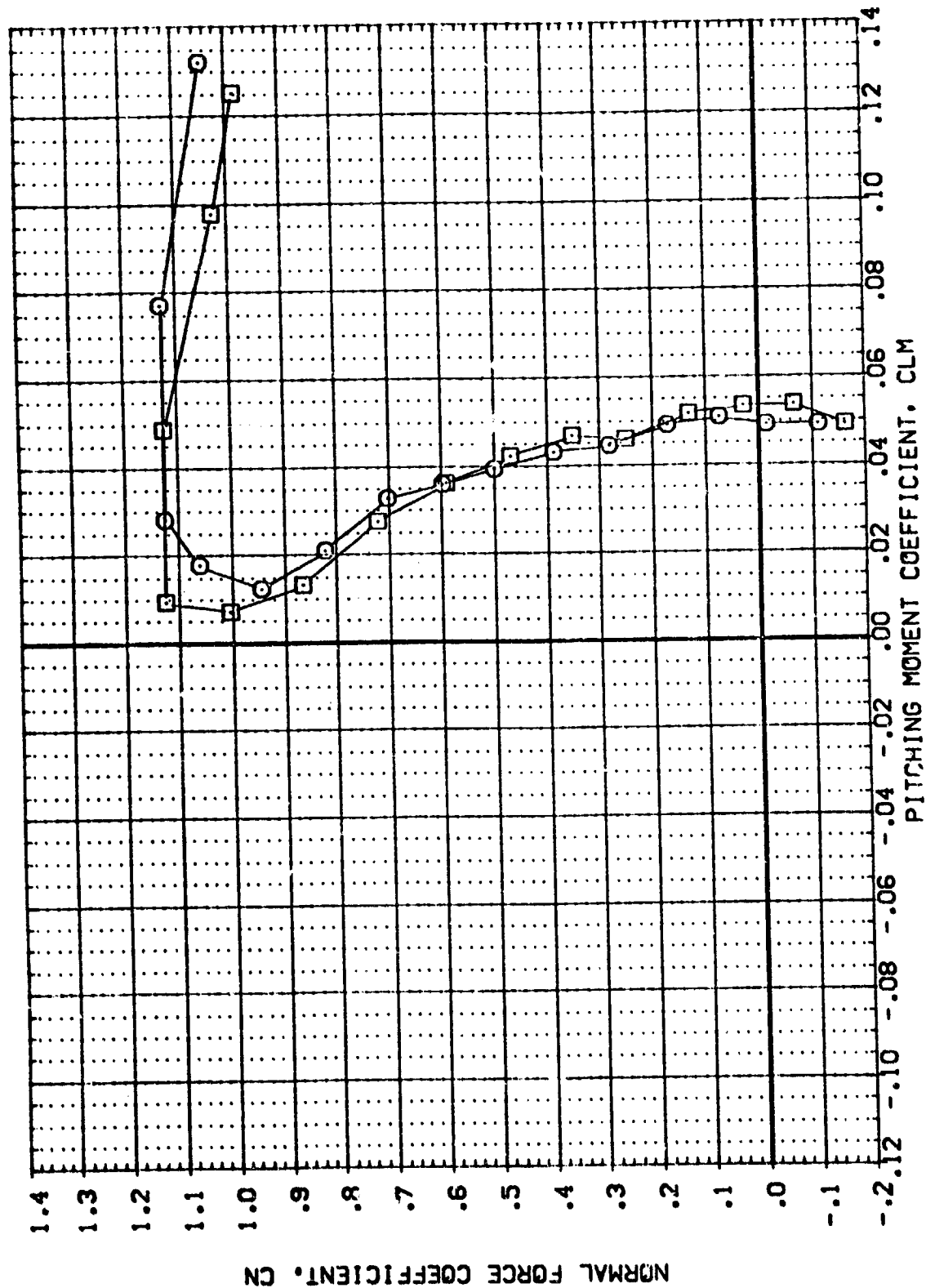


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVSN		SPDRBK		RUDDER		REFERENCE INFORMATION	
(931004)	□	AVES 66-706 CM43 B10 CS 07 P3 F4 V87E18 V5K5	-14.200	.000	\$4,500	.000	2690.0000	50.000	IN.	SREF	2690.0000	50.000	IN.
(931004)	□	AVES 66-706 CM43 B10 CS 07 P3 F4 V88E18 V5K5	-14.200	.000	\$4,500	.000	474.8000	54.500	IN.	LREF	474.8000	54.500	IN.
										BREF	936.6800	1076.4800	IN.
										XTRP	1076.4800	1076.4800	IN.
										YTRP	400.0000	400.0000	IN.
										ZTRP	400.0000	400.0000	IN.
										SCALE	.0150	SCALE	

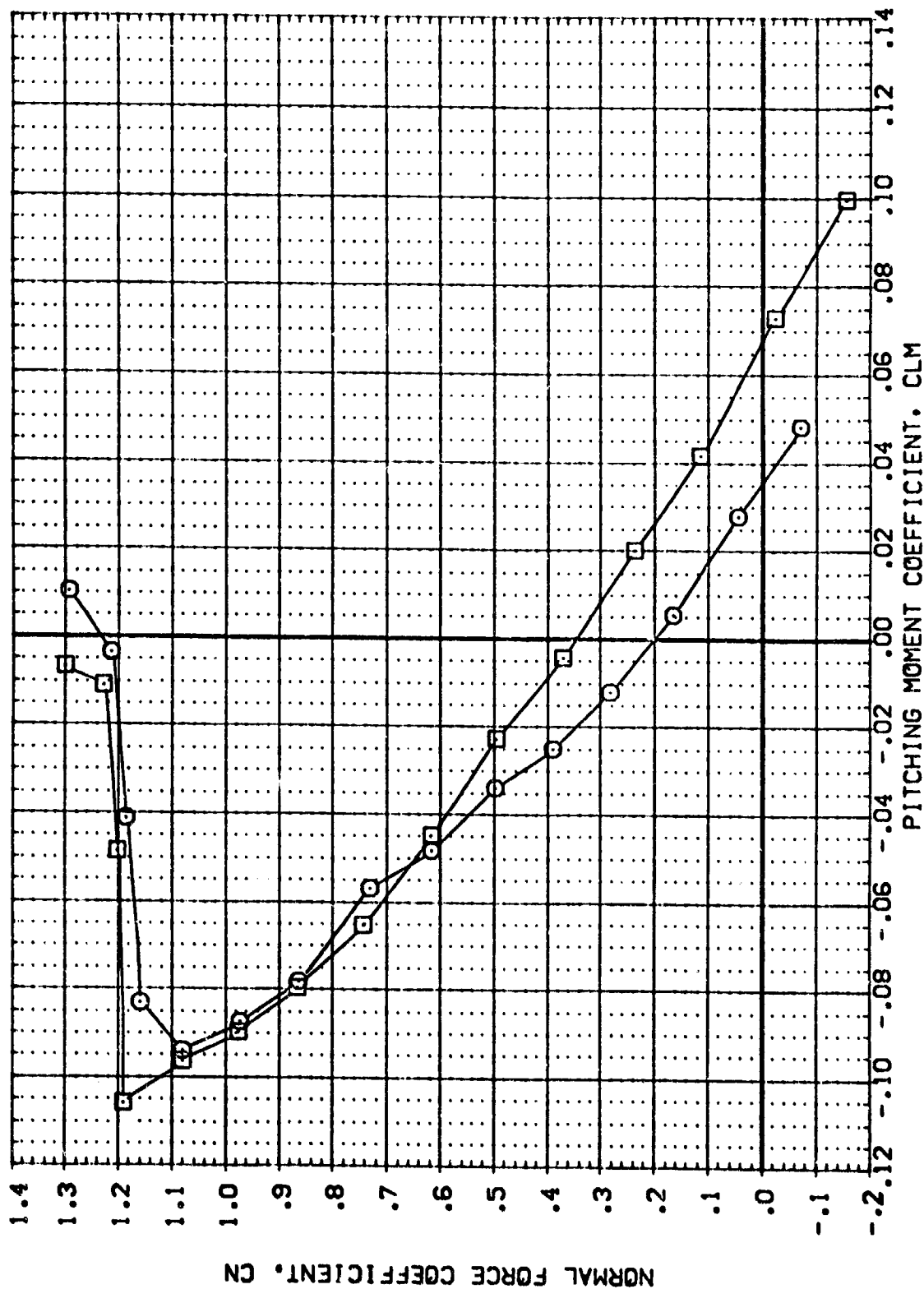


FIG. 6 WING CAMBER EFFECT

(BJMACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION	
{XBT004}		APES 66-706 CM43 B10 C5 D7 M3 F4 V87E18 VSRS										SREF 2690.0000 50.FT.	
{RBT027}		APES 66-706 CM43 B10 C5 D7 M3 F4 V88E18 VSRS										LREF 474.8000 IN.	
												BREF 936.6800 IN.	
												XMRP 1076.4800 IN.	
												YMRP .0000 IN.	
												ZMRP 400.0000 IN.	
												SCALE .0150	
		BOOFLP		ELEVON		SPDRBK		RUDDER					
		-14.200		.000		54.900		.000					
		-14.200		.000		54.900		.000					

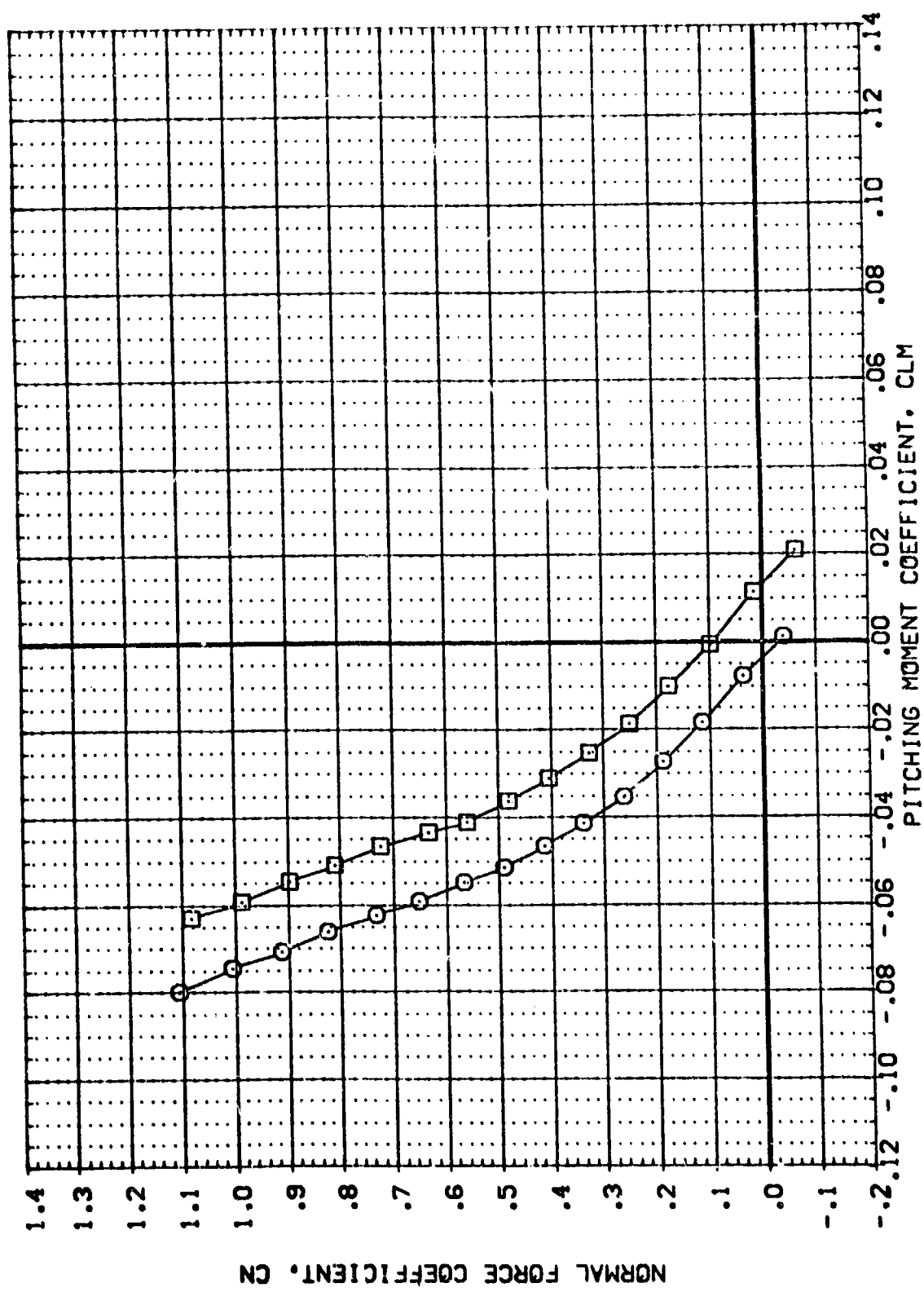


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(XBT004)	(XBT004)	AVES 66-706	0A43 B10 CS D7 H3 F4	087E18	VSR5	-14.200	.000	54.900	.000	.000	SREF	2690.0000	50.FT.
(XBT027)	(XBT027)	AVES 66-706	0A43 B10 CS D7 H3 F4	088E18	VSR5	-14.200	.000	54.900	.000	.000	LREF	474.8000	IN.
											BREF	936.6800	IN.
											XPRP	1076.4800	IN.
											YPRP	400.0000	IN.
											ZPRP	400.0000	IN.
											SCALE	.0150	SCALE

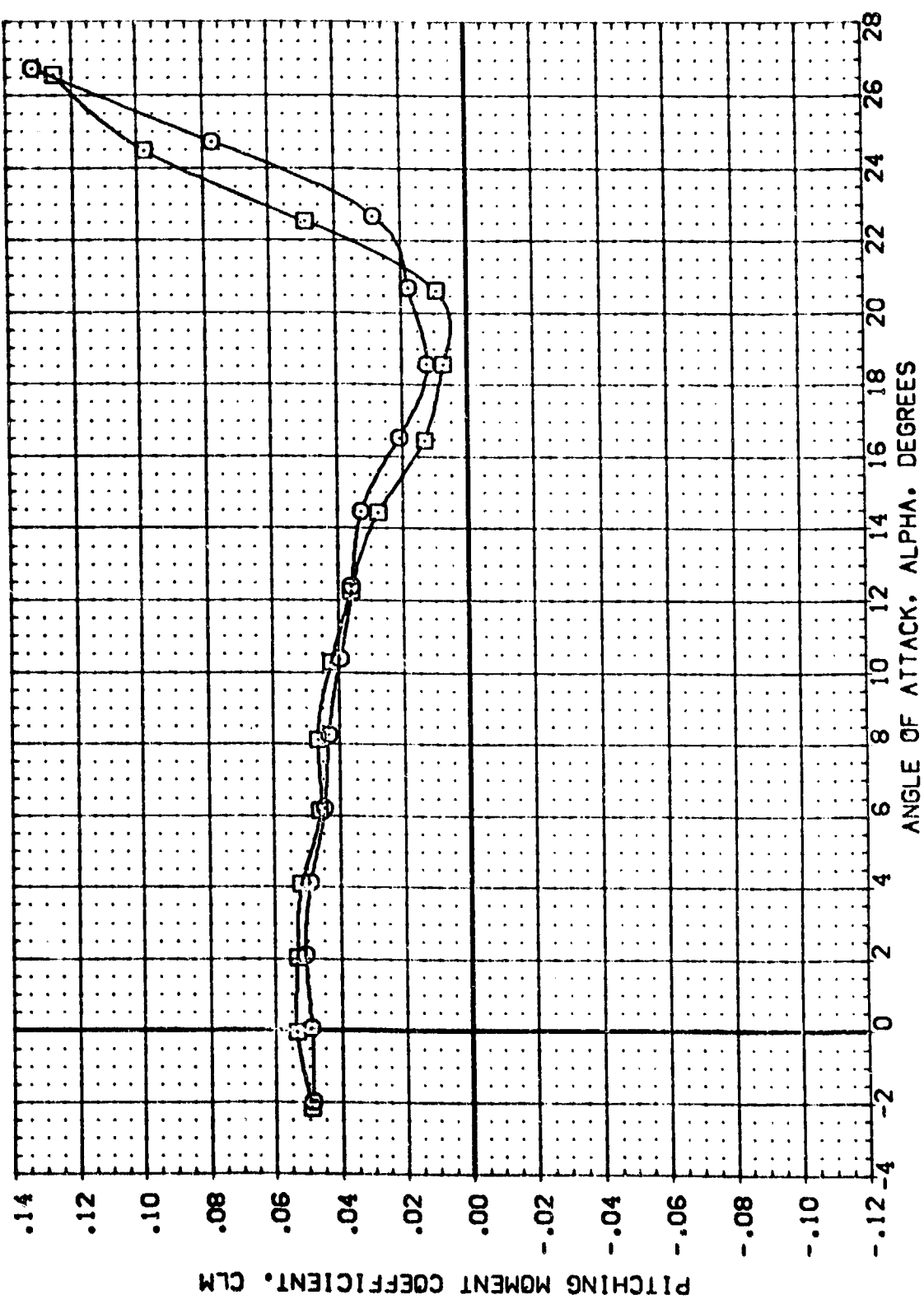


FIG. 6 WING CAMBER EFFECT

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		500FLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
[X8] 0041	[R8] 027	AVES 66-706	0A43 810 CS D7 H3 F4 V87E18 V5F5	-14.200	.000	54.900	.000	54.900	.000	2690.0000	50. FT.	SREF	
		AVES 66-706	0A43 810 CS D7 H3 F4 V88E18 V5F5	-14.200	.000	54.900	.000	54.900	.000	474.8000	IN.	LREF	
										936.6800	IN.	BREF	
										1076.4800	IN.	XMRP	
										.0000	IN.	YMRP	
										400.0000	IN.	ZMRP	
										.0150	SCALE	SCALE	

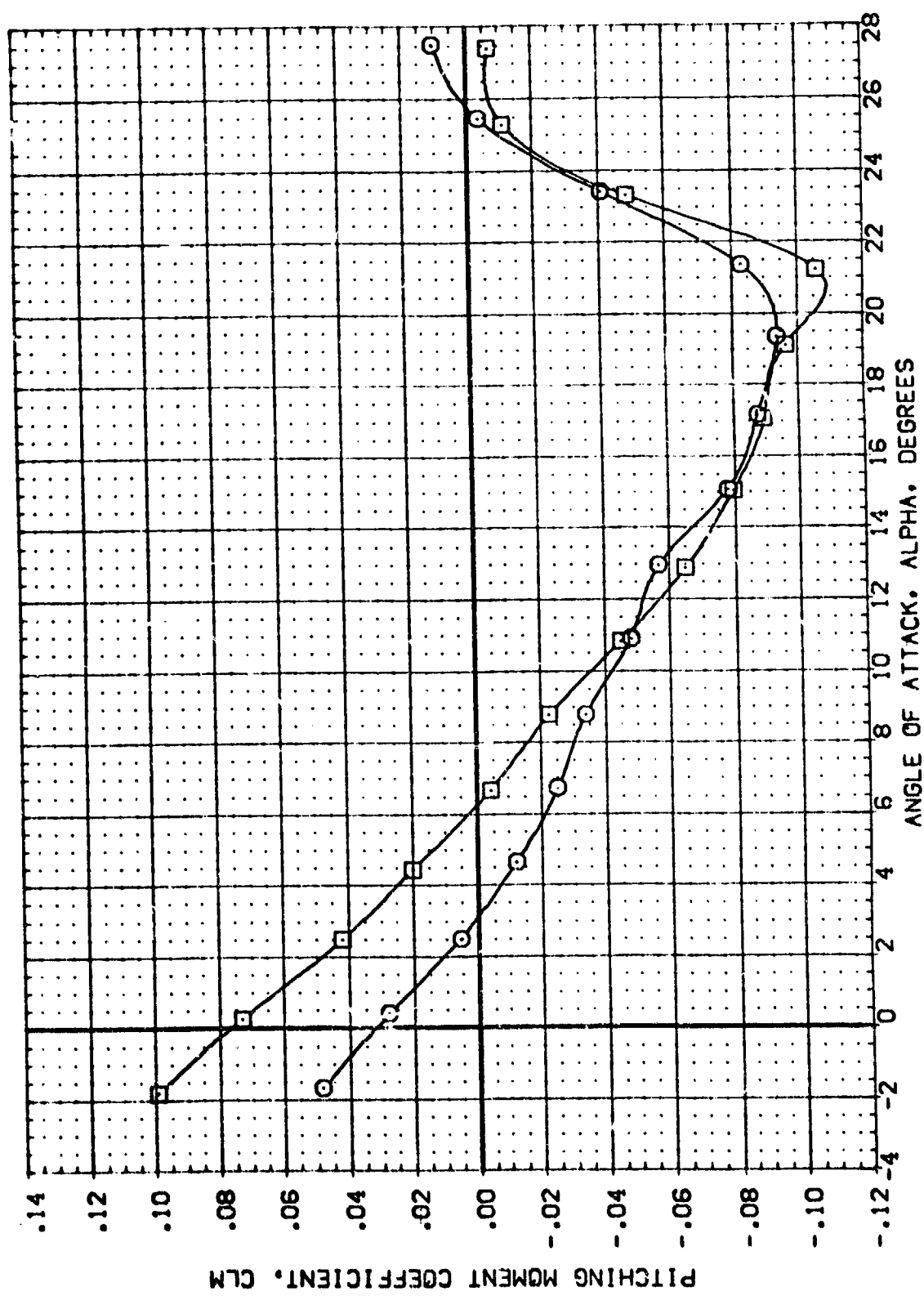


FIG. 6 WING CAMBER EFFECT

(B)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(X87004)	AVES 88-706 3M43 810 CS 07 M3 F4 V87E18 VS85	-14.200	.000	54.900	.000	SREF	269.0000 SQ.FT.
(R87027)	AVES 88-706 3M43 810 CS 07 M3 F4 V88E18 VS85	-14.200	.000	54.900	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XREF	1076.4800 IN.
						YREF	.0000 IN.
						ZREF	.0000 IN.
						SCALE	0.150 SCALE

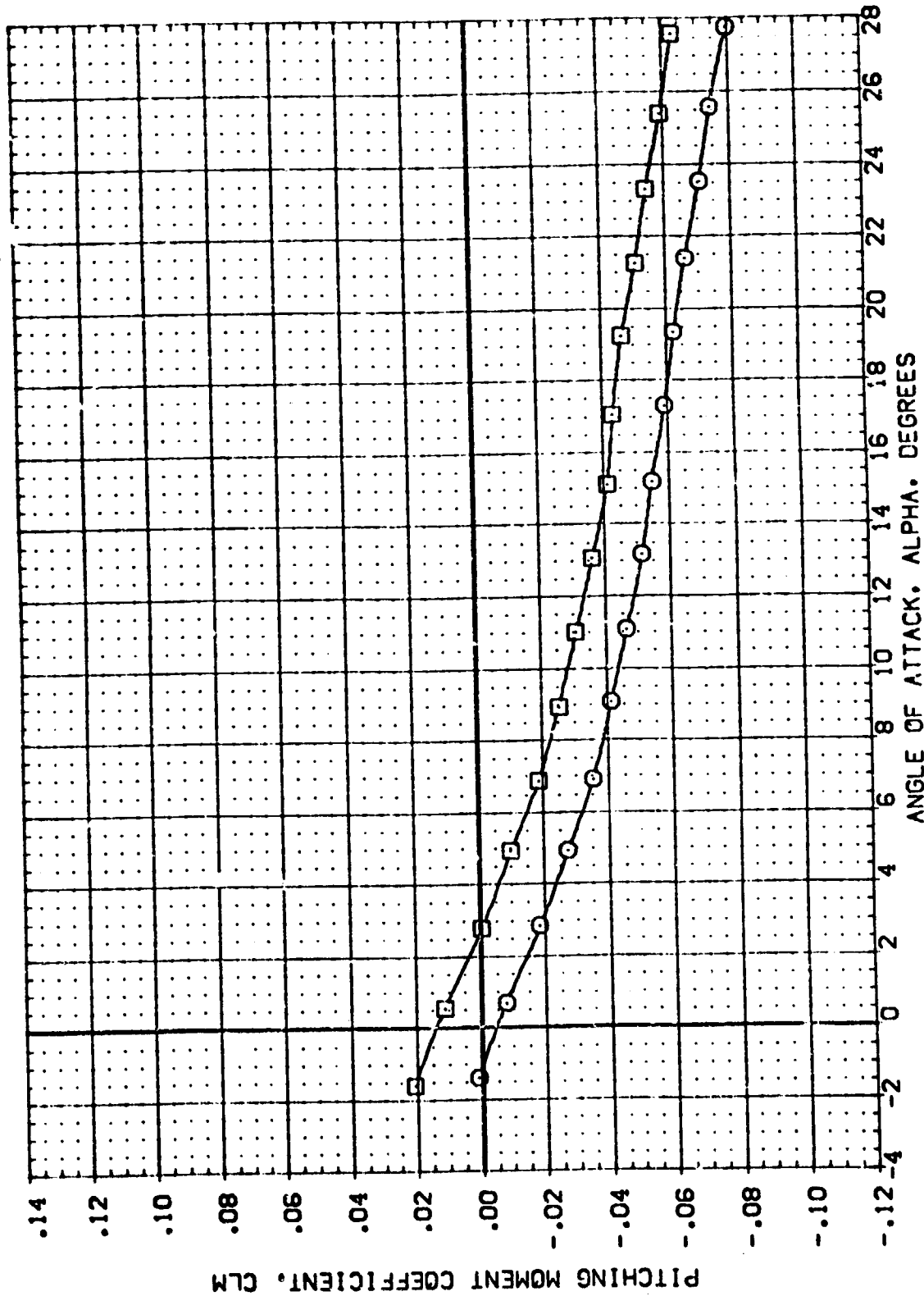


FIG. 6 WING CAMBER EFFECT

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	800F.L.P	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(V81004)	A-ES 66-706 DM3 B10 CS 07 M3 F4 V87E18 V8RS	-14.200	.000	54.500	.000	SREF 2600.0000 SQ.FT.
(R81027)	A-ES 66-706 DM3 B10 CS 07 M3 F4 V83E18 V8RS	-14.200	.000	54.500	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1103.2400 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

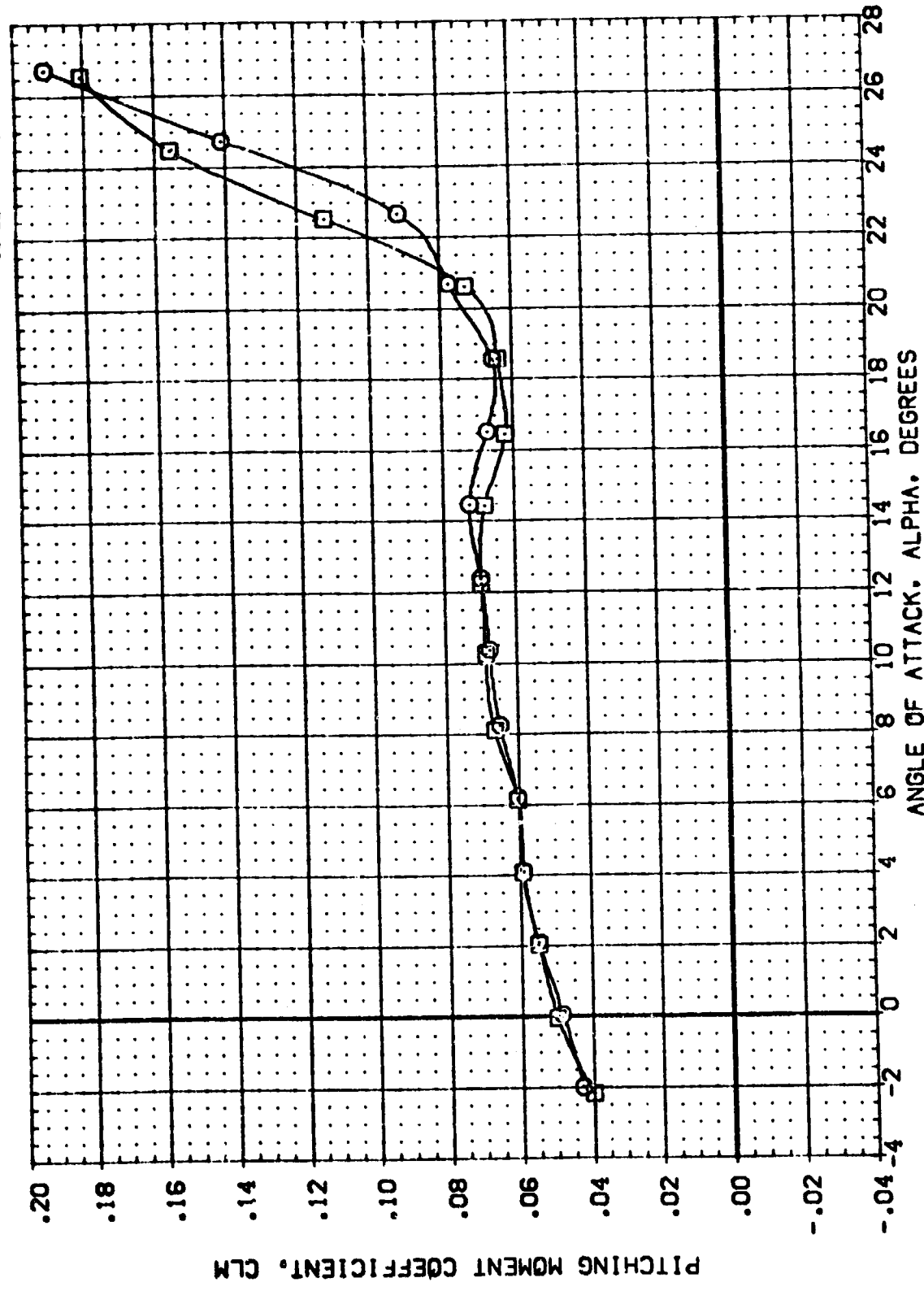


FIG. 6 WING CAMBER EFFECT (AFT C.G.)

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOEFLP		ELEVON		SPORBN		RUDDER		REFERENCE INFORMATION			
(V8T004)	(B8T027)	APES 66-706	DA13	B10	CS	D7	M3	F4	V87E18	V5RS	-14.200	.000	54.900	.000	2680.0000	50. FT.							
		APES 66-706	DA13	B10	CS	D7	M3	F4	V88E18	V5RS	-14.200	.000	54.900	.000	474.8000	IN.							
															936.6800	IN.							
															1:03.2400	IN.							
															400.0000	IN.							
															400.0000	IN.							
															SCALE	SCALE							

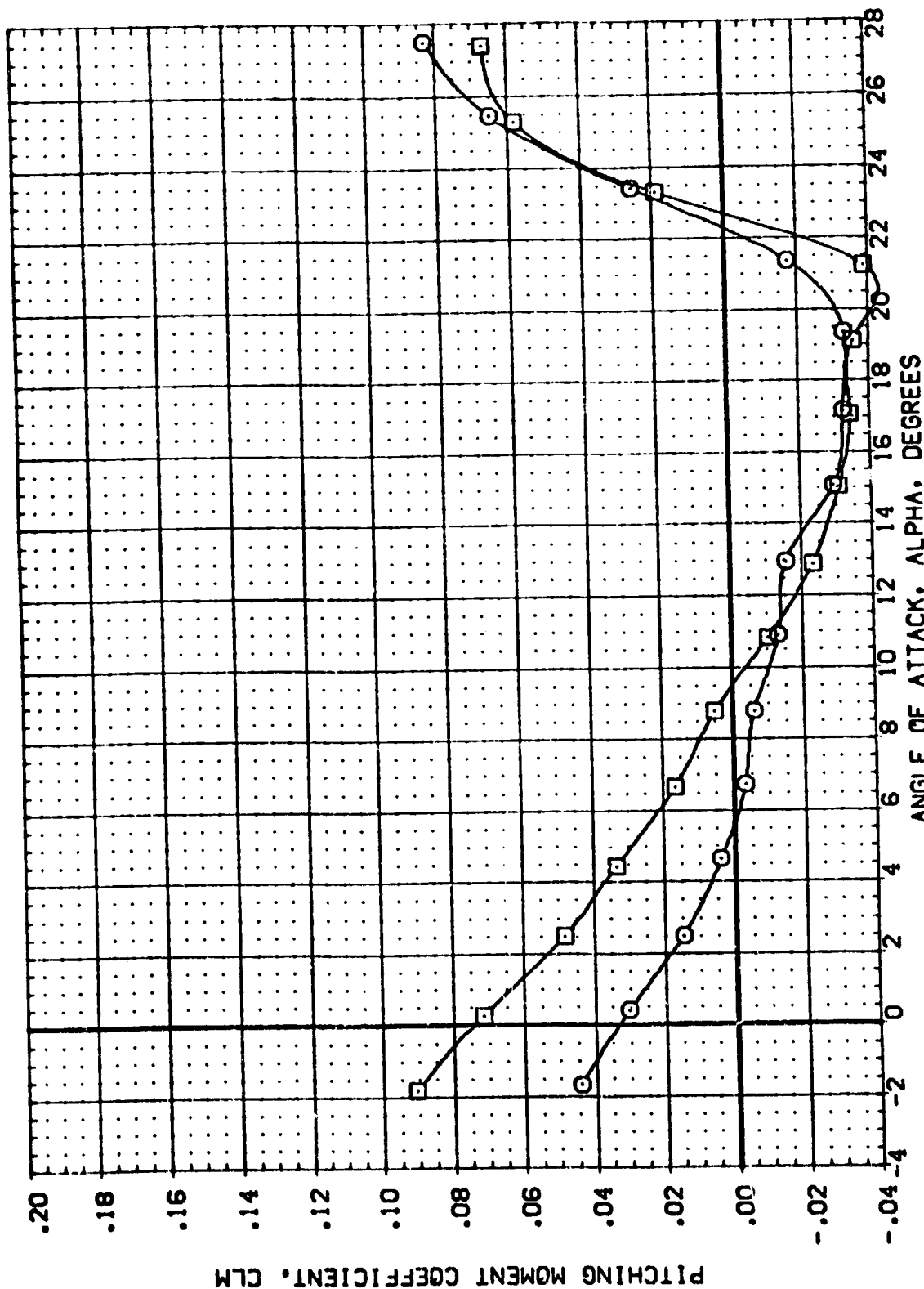


FIG. 6 WING CAMBER EFFECT (AFT C.G.)

(B)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION			
(V870C4)	9	AVES 68-706	CA43	B10	CS	D7	PG	F4	V87E18	V5R5	-14.200	.000	54.900	.000	.000	SREF	2690.0000	50.000					
(B87C27)		AVES 68-706	CA43	B10	CS	D7	PG	F4	V88E18	V5R5	-14.200	.000	54.900	.000	.000	LREF	474.8000	IN:					
																BREF	936.6800	IN:					
																XPRP	1103.2400	IN:					
																YPRP	.0000	IN:					
																ZPRP	400.0000	IN:					
																SCALE	.0150	SCALE					

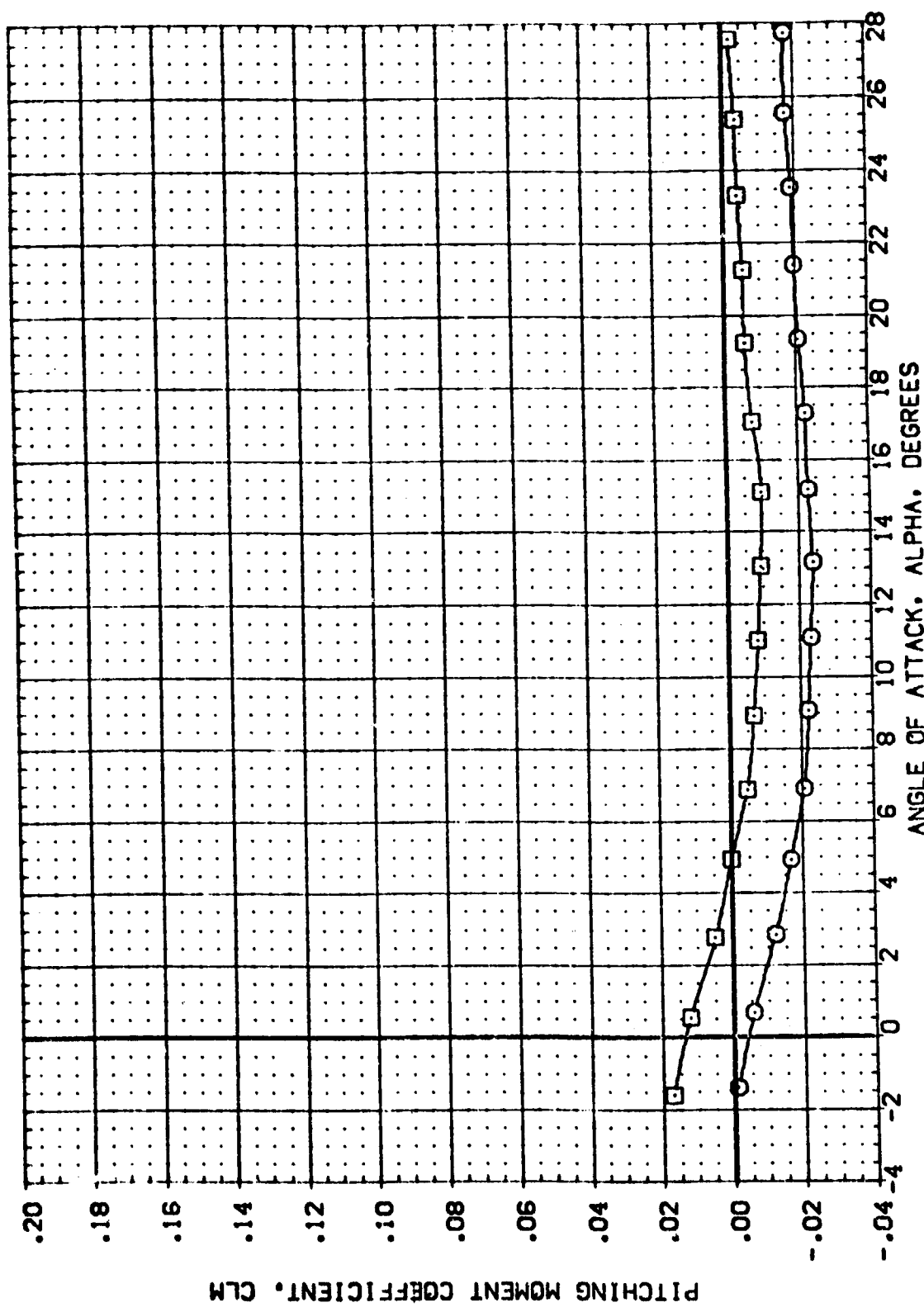


FIG. 6 WING CAMBER EFFECT (AFT C.G.)

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBT004)	AVES 66-706 QM43 B10 CS D7 H3 F4 V87E18 VSX5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(CBT027)	AVES 66-706 QM43 B10 CS D7 H3 F4 V88E18 VSX5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XTRP 1076.4800 IN.
						YTRP .0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

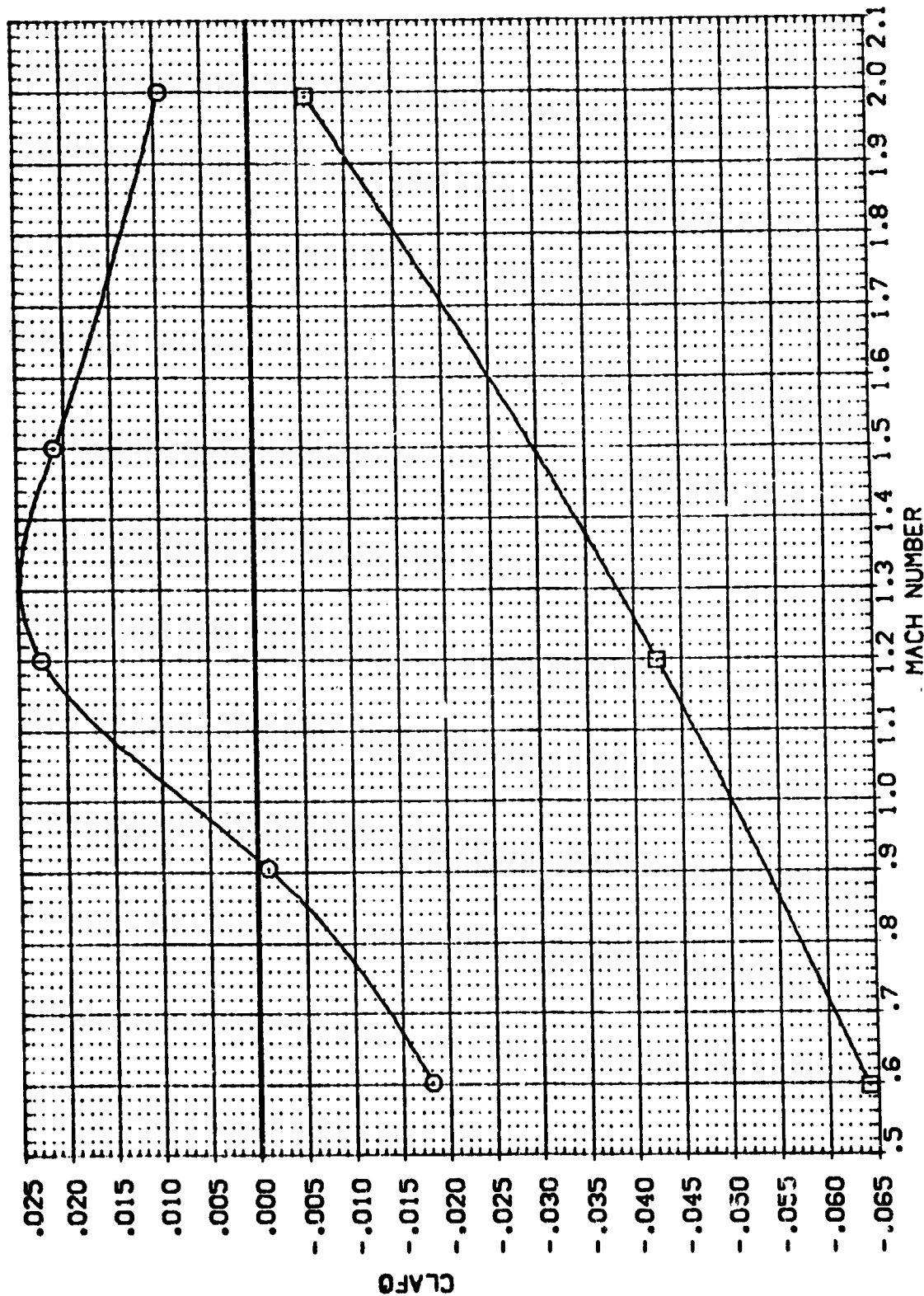


FIG. 6 WING CAMBER EFFECT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ROOT CLIP	ELEVON	SPOILER	RUDDER	REFERENCE INFORMATION
{CBT004}	AVES 66-706 DA43 B10 CS 07 K3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
{CBT027}	AVES 66-706 DA43 B10 CS 07 K3 F4 V88E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1075.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

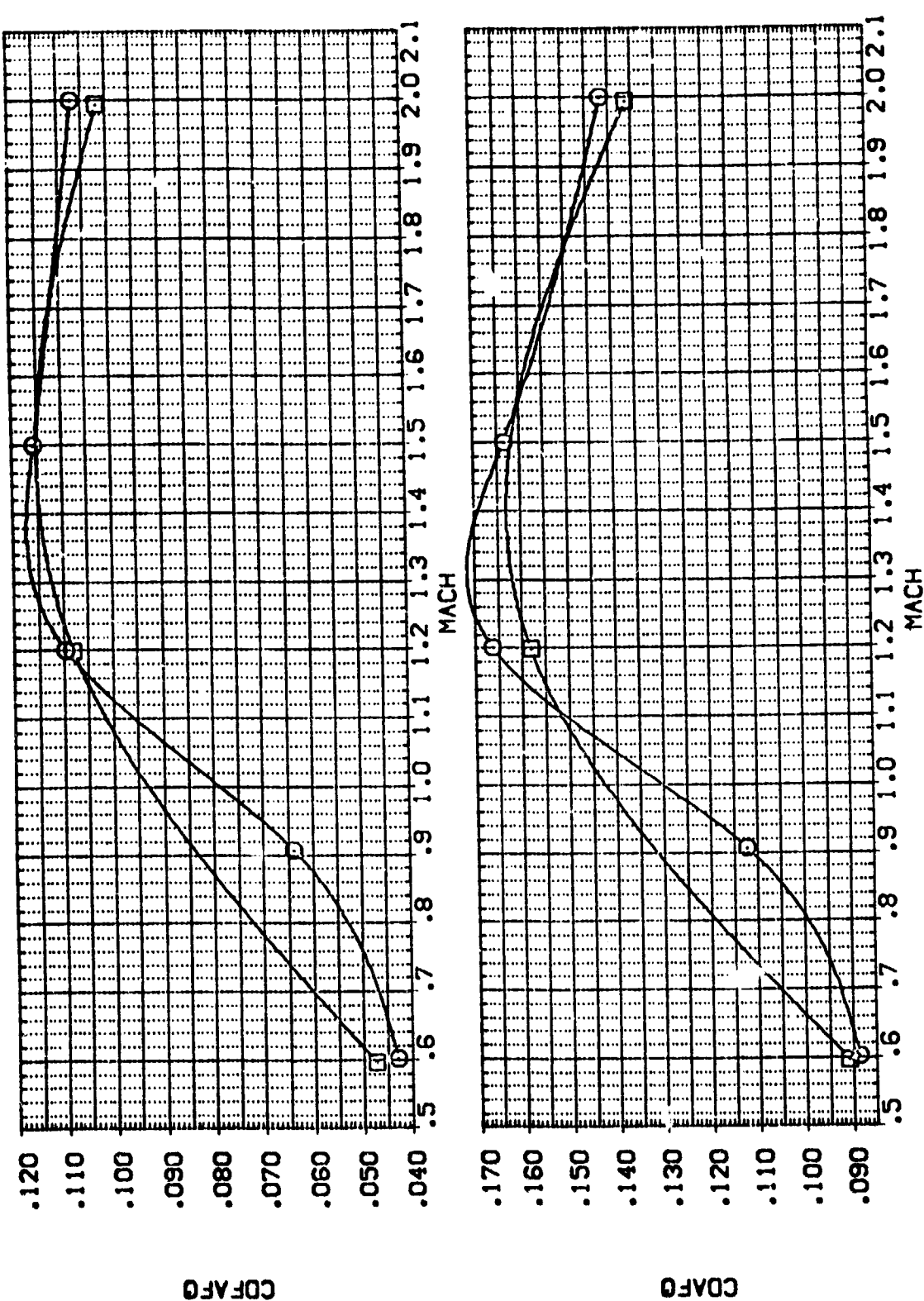


FIG. 6 WING CAMBER EFFECT

DATA SET SYMBOL: 8
 CONFIGURATION DESCRIPTION: AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS
 AVES 66-706 DA13 B10 CS D7 M3 F4 V88E18 VSRS

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XTRP 1076.1800 IN.
 YTRP 400.0000 IN.
 ZTRP 100.0000 IN.
 SCALE .0150

ROOF LP: -14.200
 ELEVON: .000
 SPDBRK: 54.900
 RUDDER: .000

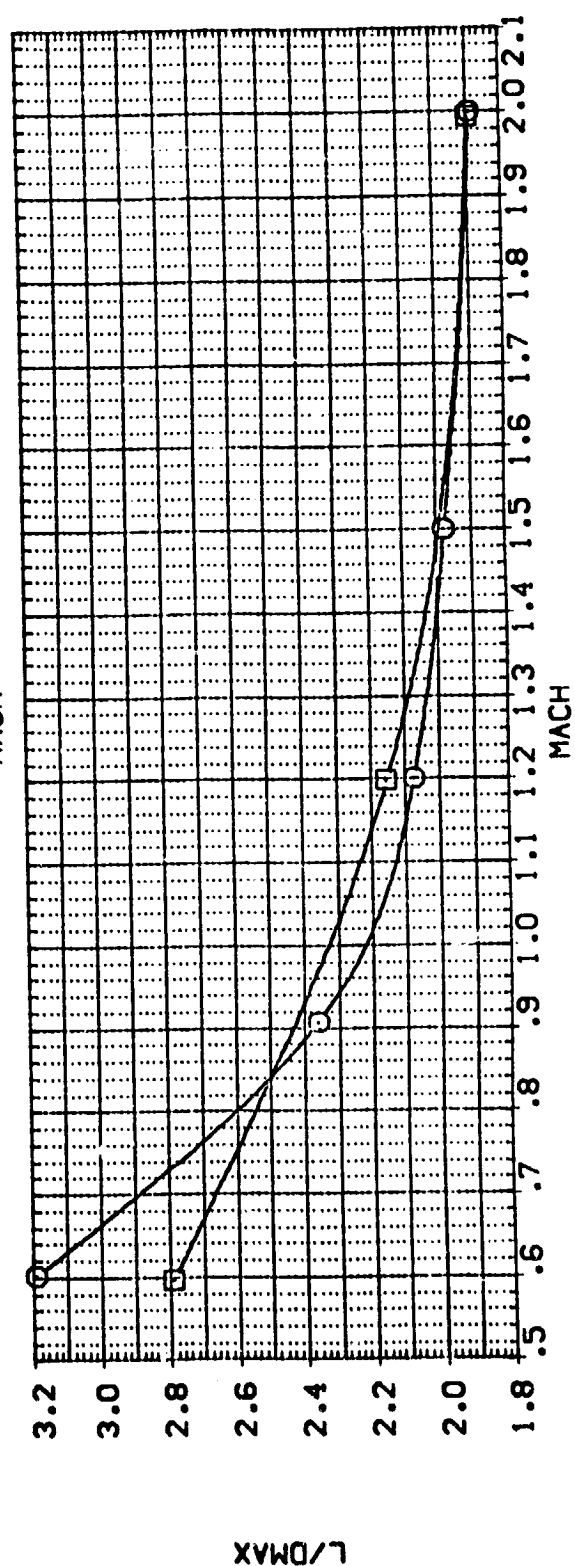
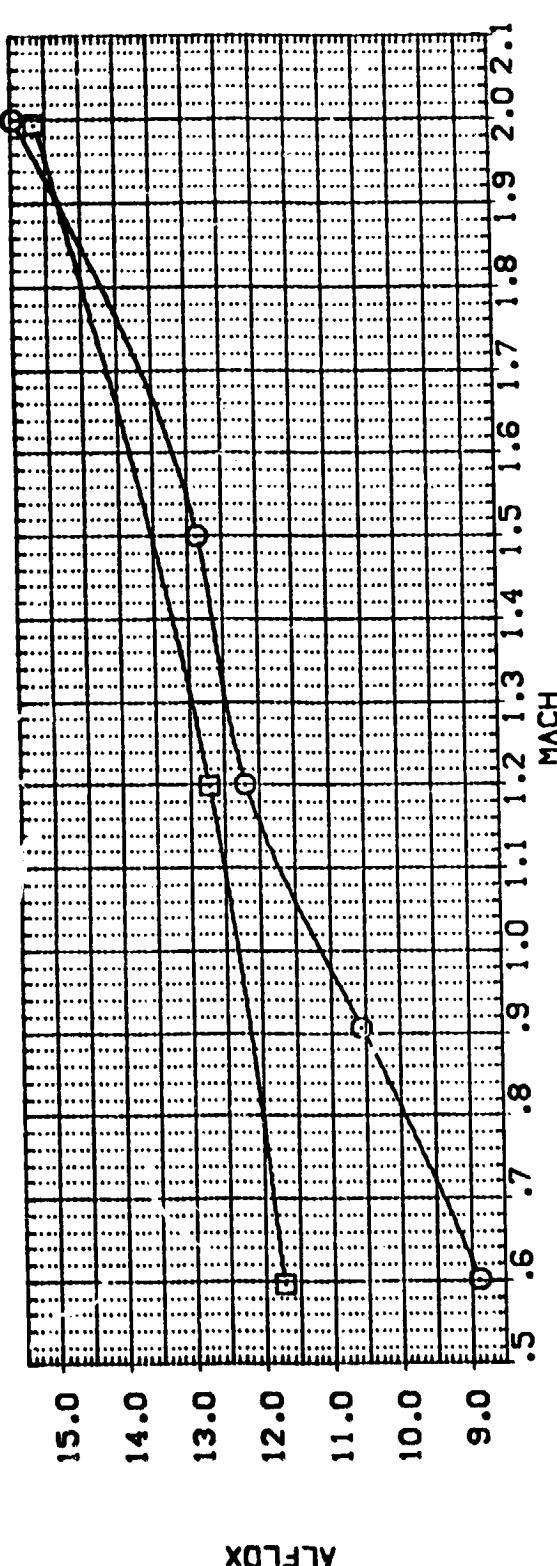


FIG. 6 WING CAMBER EFFECT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBT002)	AMES 66-706 0413 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.800	.000	SREF 2690.0000 SQ.FT.
(CBT027)	AMES 66-706 0413 810 CS D7 M3 F4 V88E18 VSRS	-14.200	.000	54.500	.000	REF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE 100.0000 IN.
						SCALE .0150

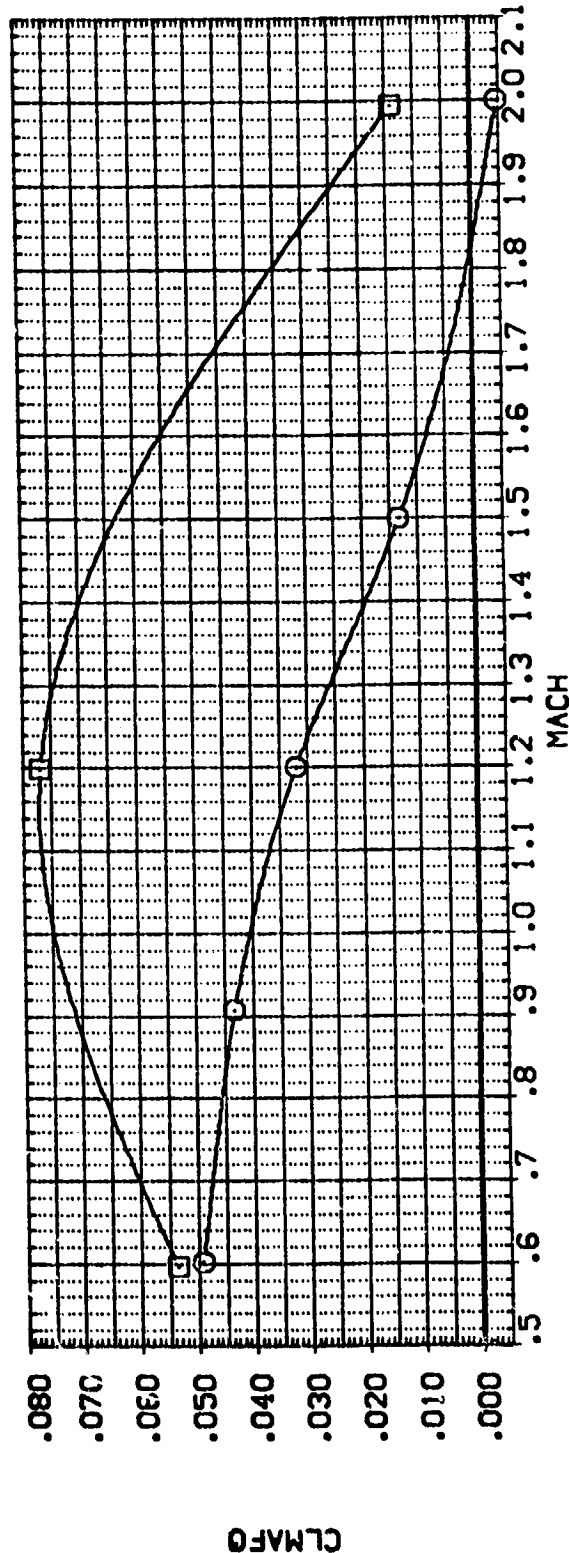
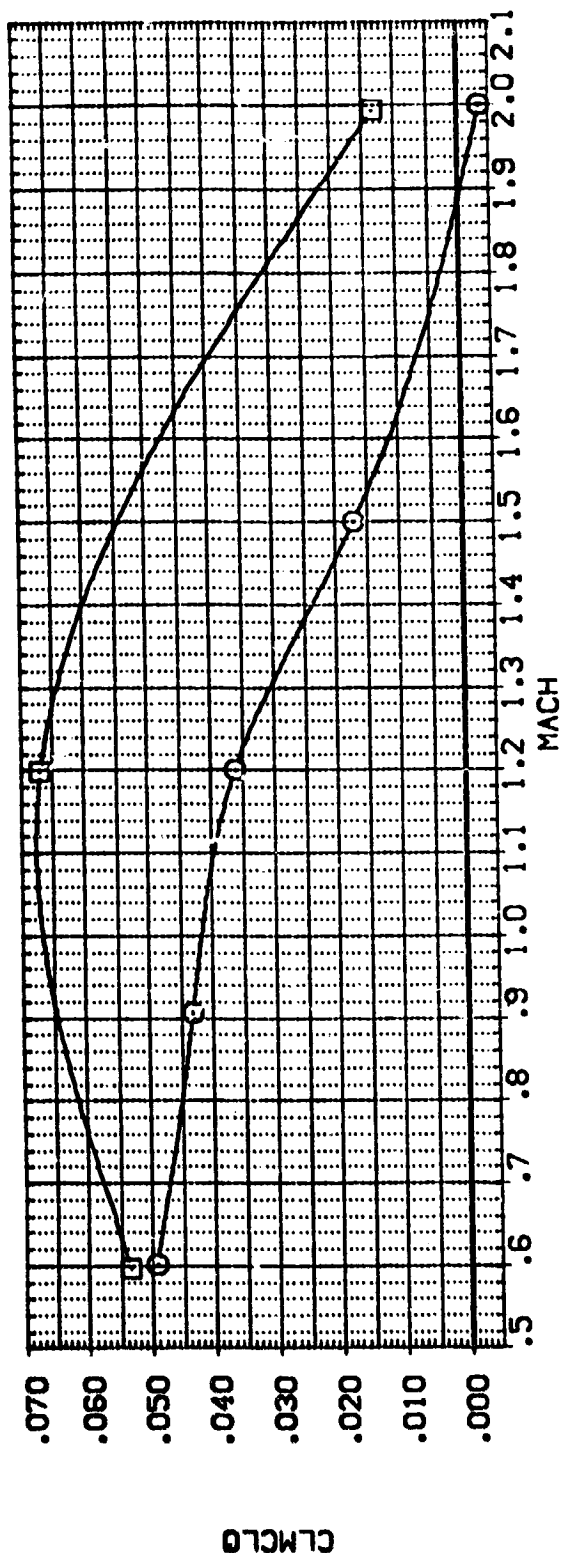


FIG. 6 WING CAMBER EFFECT

DATA SET SYMBOL: (C81004) (C81027)

CONFIGURATION DESCRIPTION: AVES 66-706 DM3 B10 CS 07 K3 F4 V87E18 VSR5 AVES 66-706 DM3 B10 CS 07 K3 F4 V88E18 VSR5

BOOFLP: -14.200 -14.200

ELEVON: .000 .000

SPDBRK: 54.900 54.900

RUDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150

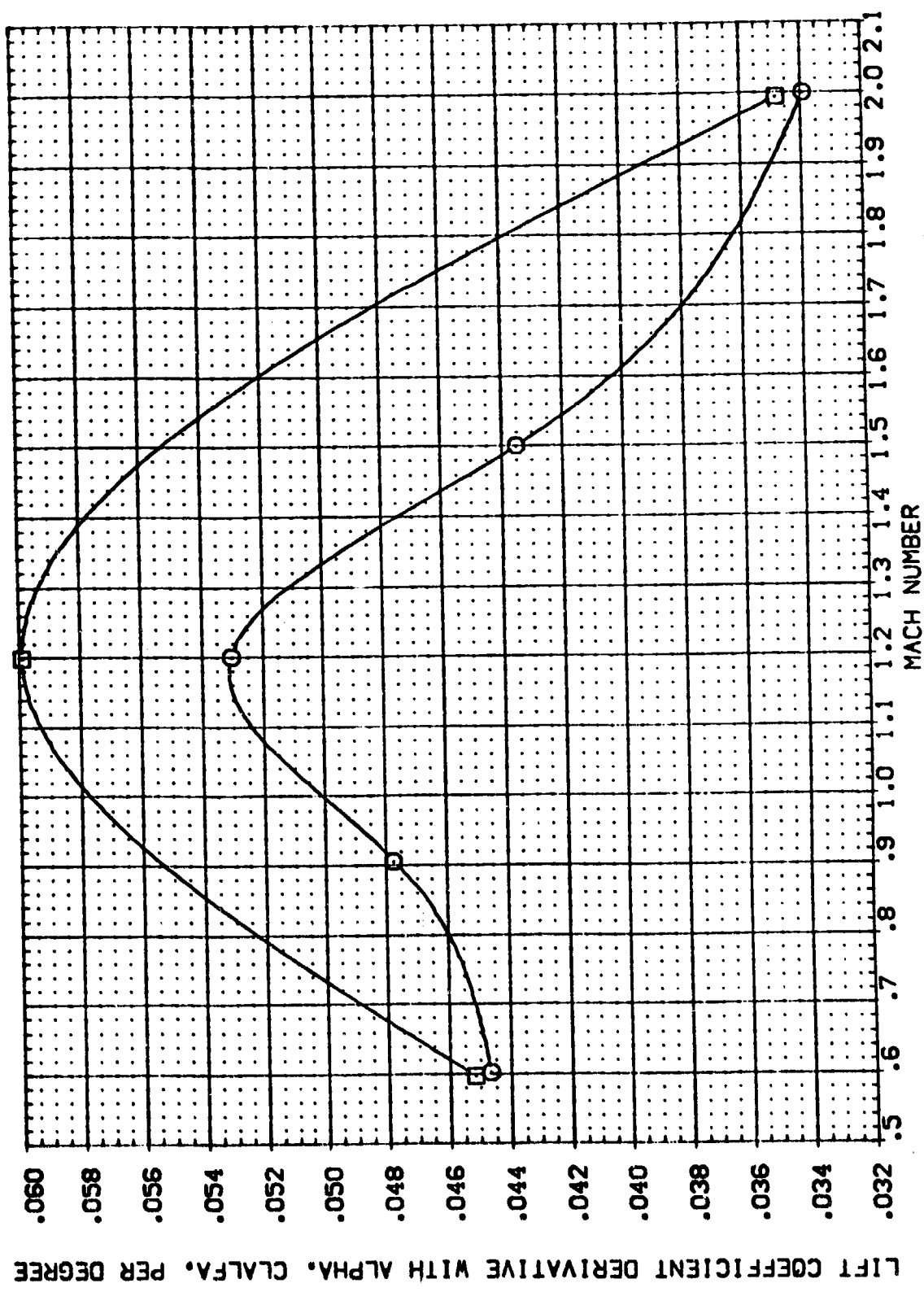


FIG. 6 WING CAMBER EFFECT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(16T004)	APES 66-706 0A43 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(16T027)	APES 66-706 0A43 810 CS D7 M3 F4 V88E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

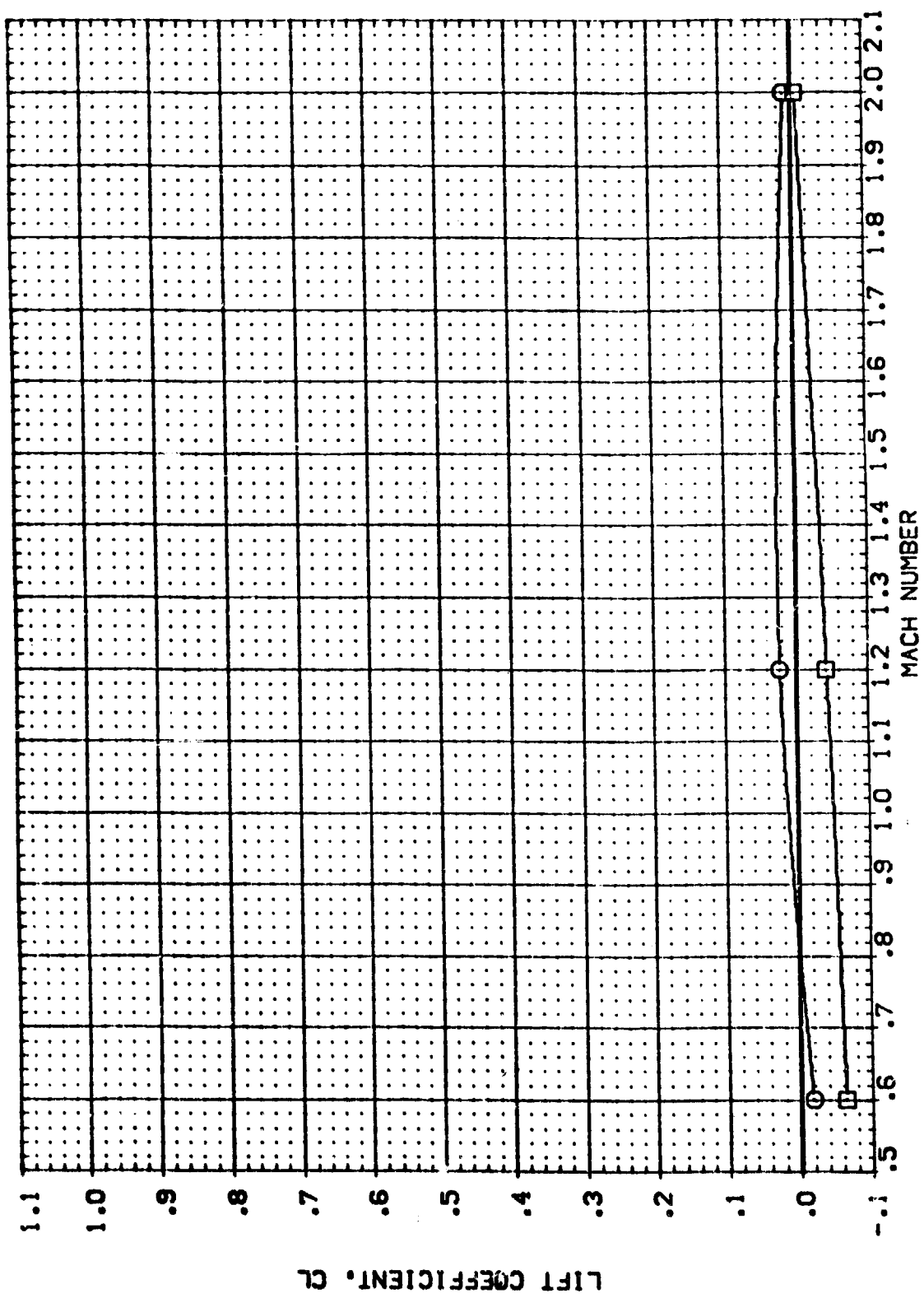


FIG. 6 WING CAMBER EFFECT

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFO	ATTION
(H8T004)	AVES 65-705 0A13 B10 CS 07 H3 F4 V87E18 VSR5	-14.200	.000	54.900	.000	SREF 2690.0000	50. FT.
(H8T027)	AVES 65-705 0A13 B10 CS 07 H3 F4 V88E18 VSR5	-14.200	.000	54.900	.000	LREF 474.8000	IN.
						BREF 936.6800	IN.
						XTRP 1076.4800	IN.
						YTRP .0000	IN.
						ZTRP .0000	IN.
						SCALE .0150	SCALE

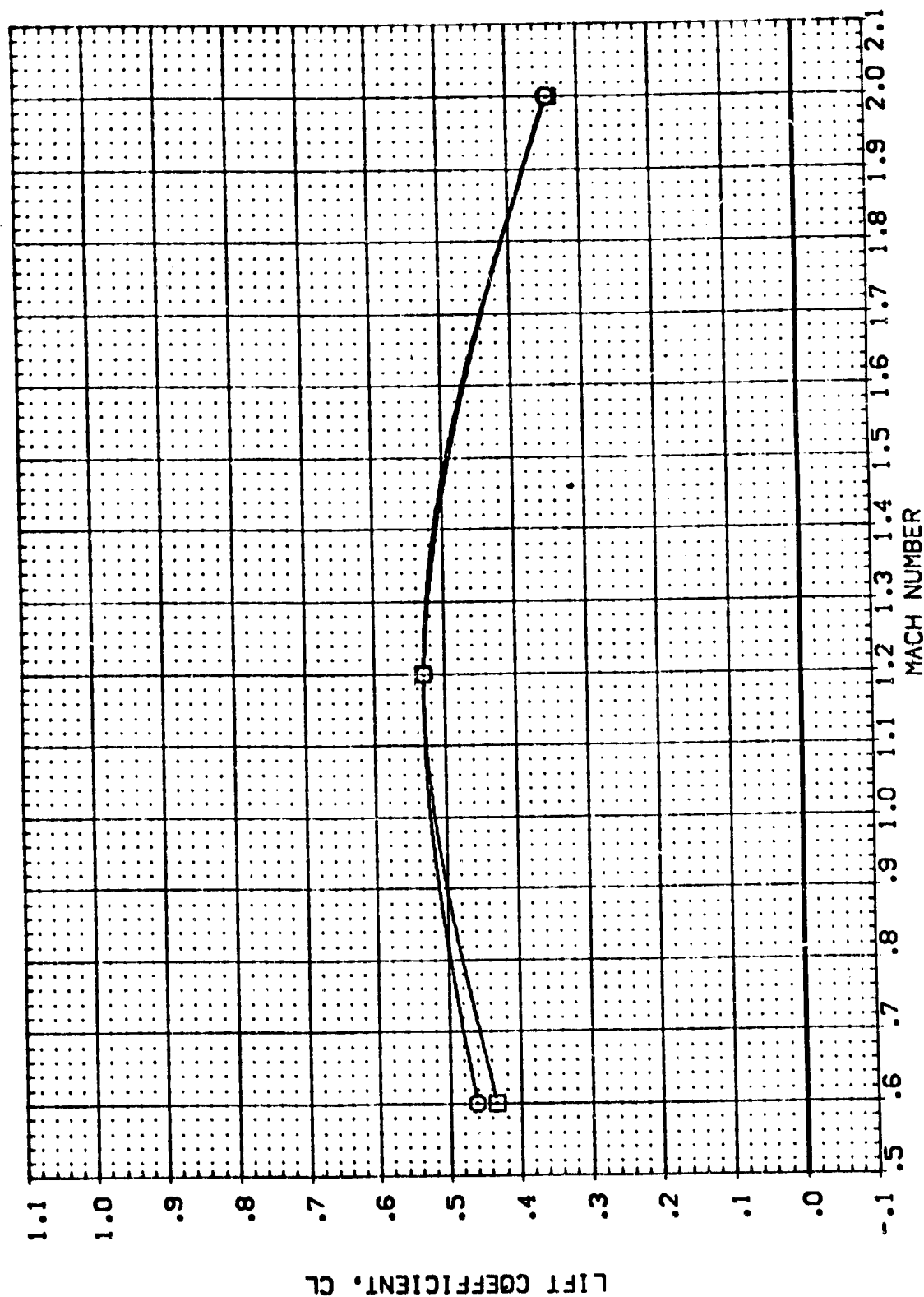


FIG. 6 WING CAMBER EFFECT
(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[187004]	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[187027]	AVES 66-706 0A43 B10 CS D7 M3 F4 V88E18 V5R5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.1800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE .0150

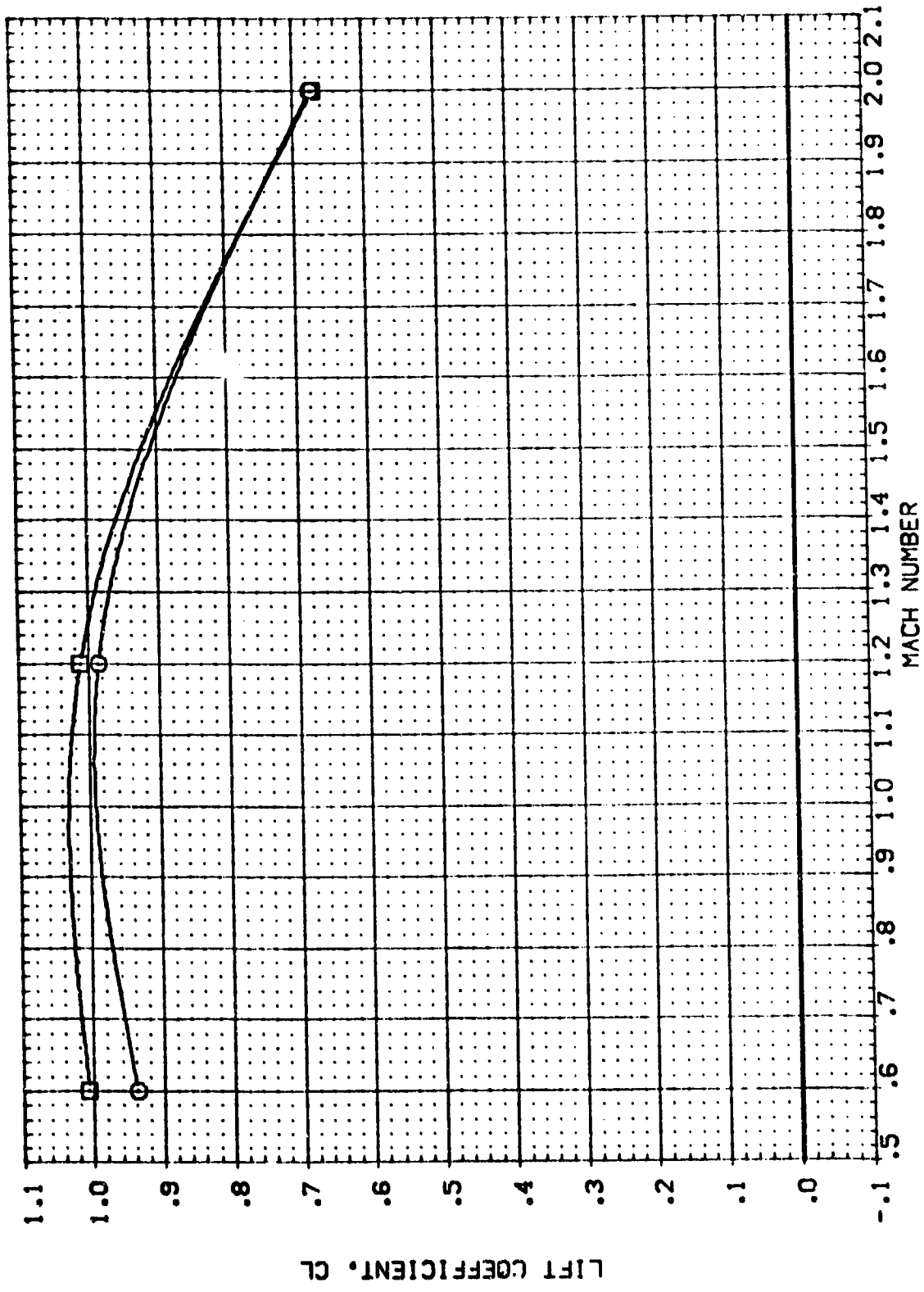


FIG. 6 WING CAMBER EFFECT

(CJALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[187004]	AYES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VSR5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[187027]	AYES 66-706 0A13 B10 C5 D7 M3 F4 V88E18 VSR5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

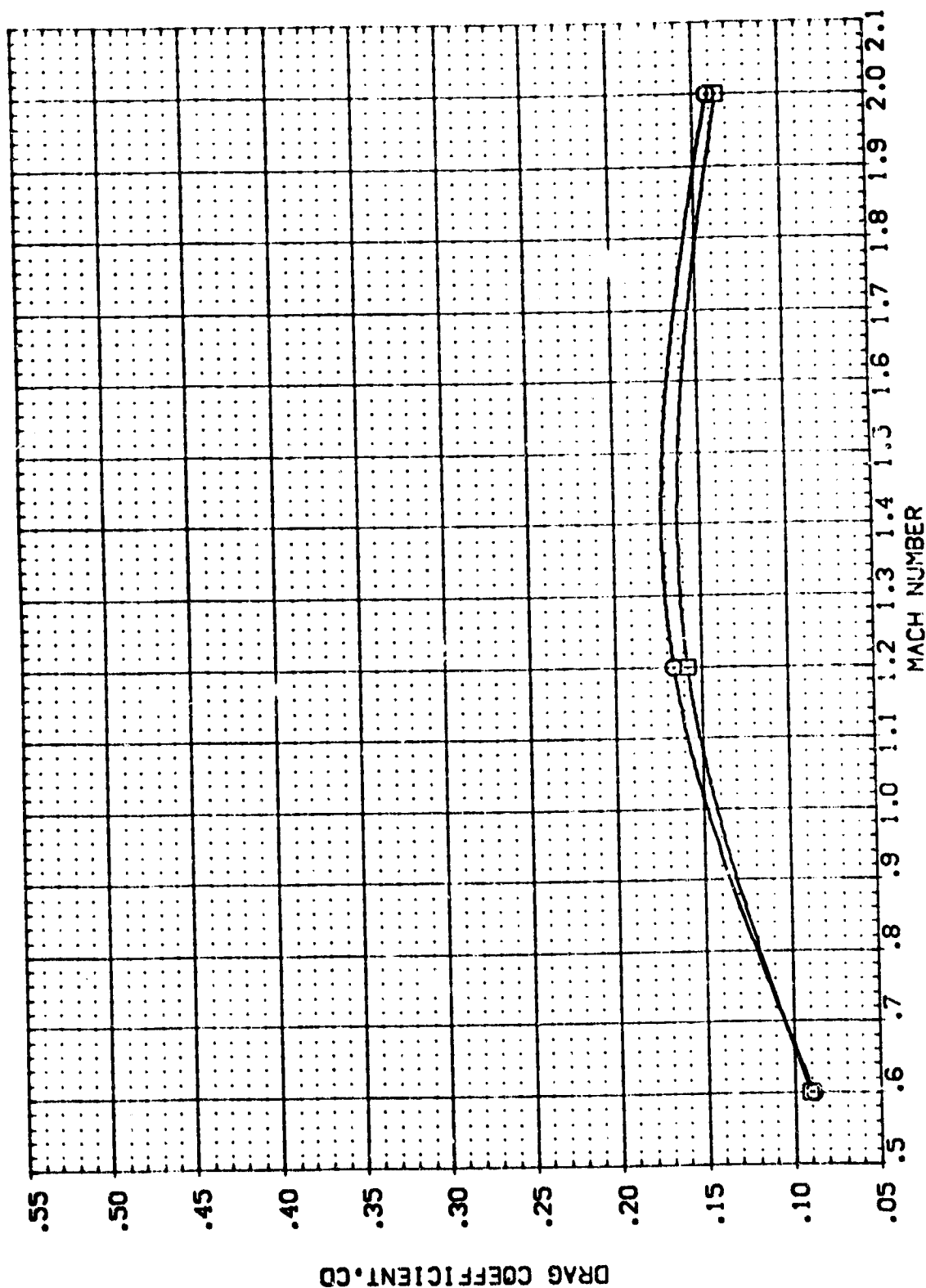


FIG. 6 WING CAMBER EFFECT

(α) ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION	
[+8'004]		A-ES 66-706 CA43 B10 CS 07 M3 F4 V87E18 VSMS										SREF 7690.0000 SQ.FT.	
[+8'027]		A-ES 66-706 CA43 B10 CS 07 M3 F4 V88E18 VSMS										LREF 474.8000 IN.	
												BREF 536.6800 IN.	
												XREF 1075.4800 IN.	
												YREF 0.0000 IN.	
												ZREF 400.0000 IN.	
												SCALE .0150	

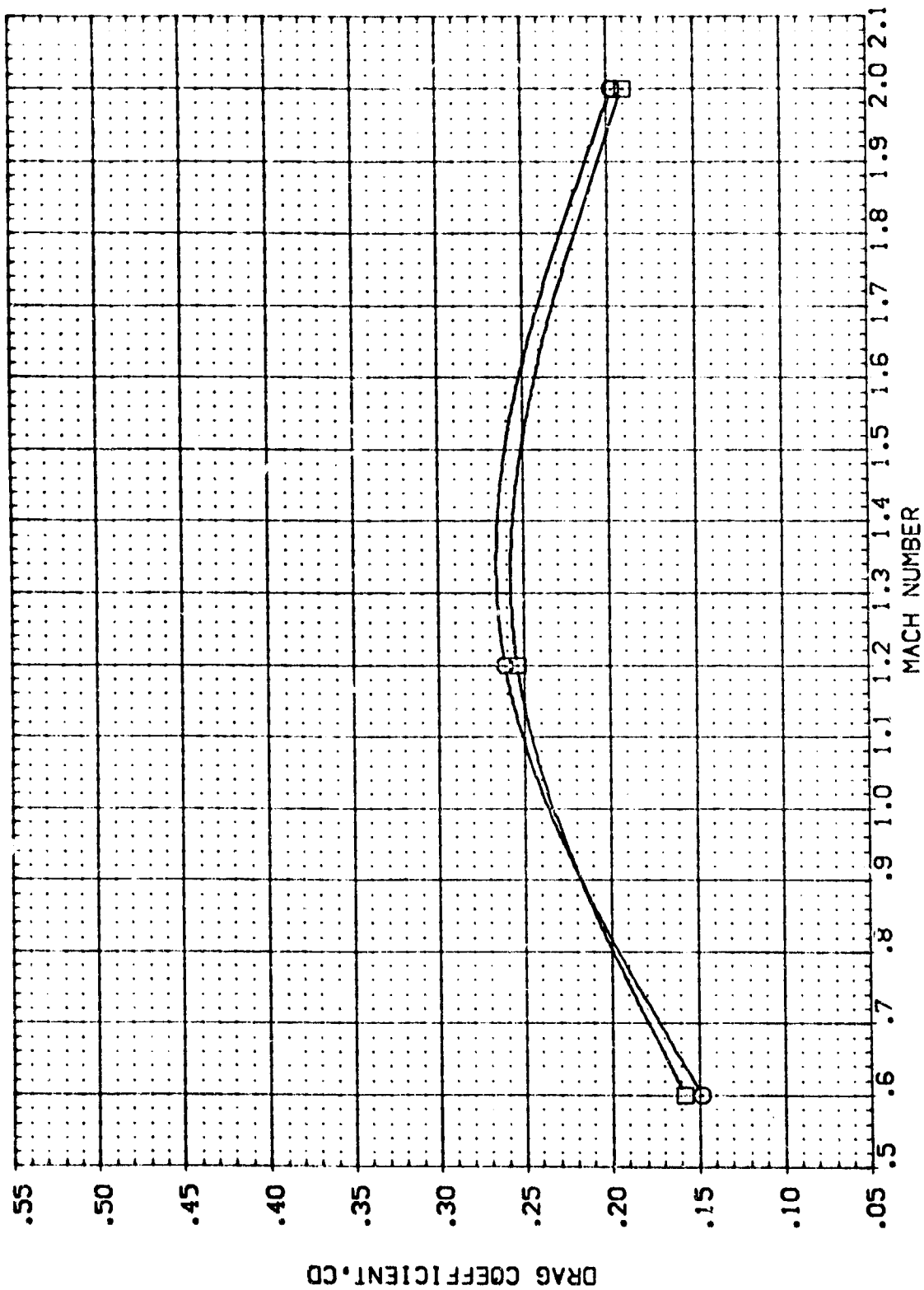


FIG. 6 WING CAMBER EFFECT

(B) ALPHA = 10.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION		
(-87004)		AVES 65-706	0A43	810	CS	D7	P3	F4	V87E18	V585		SREF	2690.0000	50. FT.
(-87027)		AVES 65-706	0A43	810	CS	D7	P3	F4	V88E18	V585		REF	474.5070	IN.
												B-L	936.6811	IN.
												X-PROP	1076.4800	IN.
												Y-PROP	400.0000	IN.
												Z-PROP	400.0000	IN.
												SCALE	.0150	SCALE

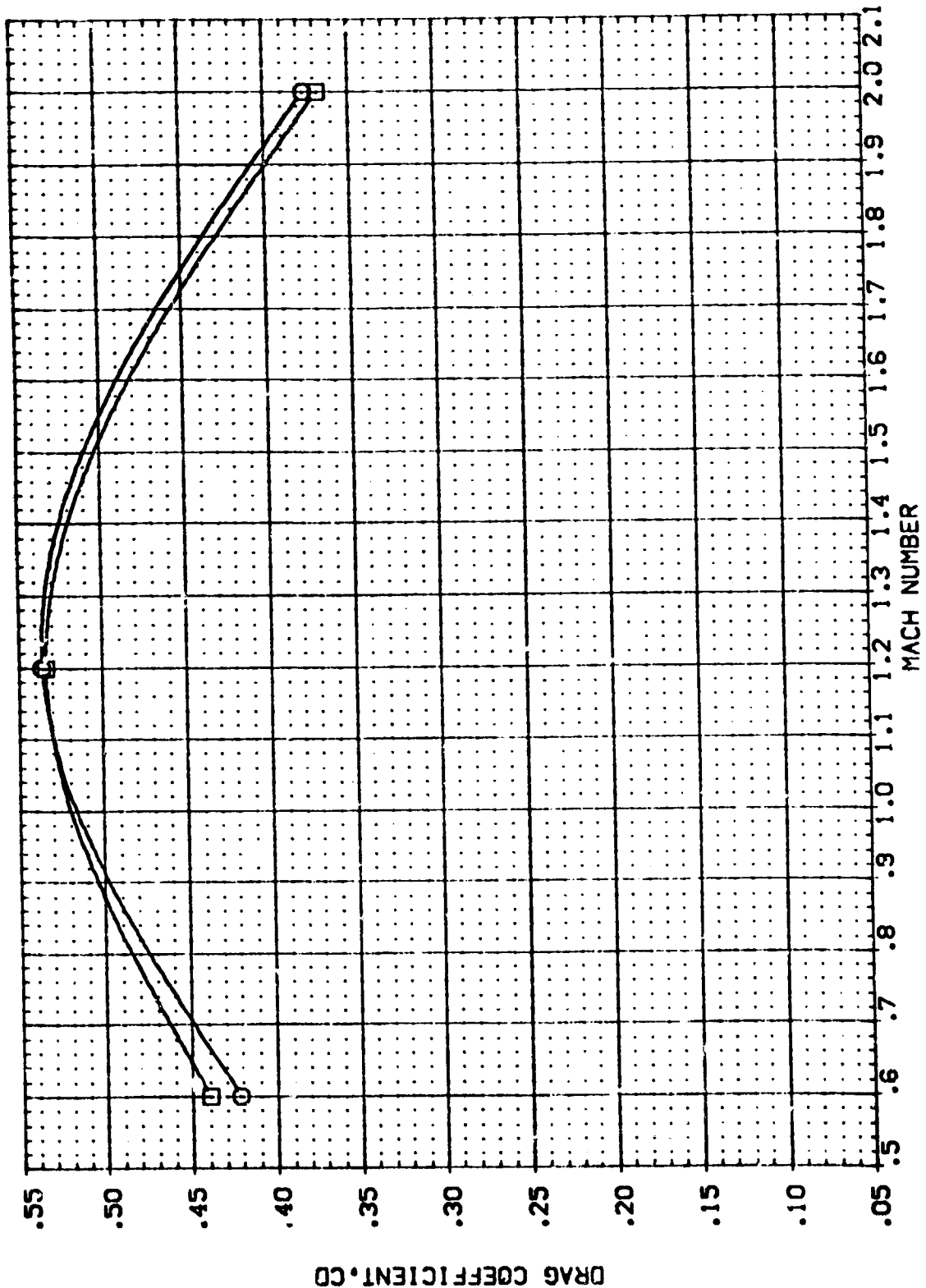


FIG. 6 WING CAMBER EFFECT
(C) ALPHA = 20.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION		
(1487004)	8	AMES 66-706	0A43	810	C5	D7	H3	F4	V87E18	V5M5		SREF	2690.0000	50.FT.
(1487027)	8	AMES 66-706	0A43	810	C5	D7	H3	F4	V86E18	V5M5		LREF	474.6300	IN.
												BREF	936.6800	IN.
												XTRP	1076.1800	IN.
												YTRP	100.0000	IN.
												ZTRP	100.0000	IN.
												SCALE	.0150	SCALE

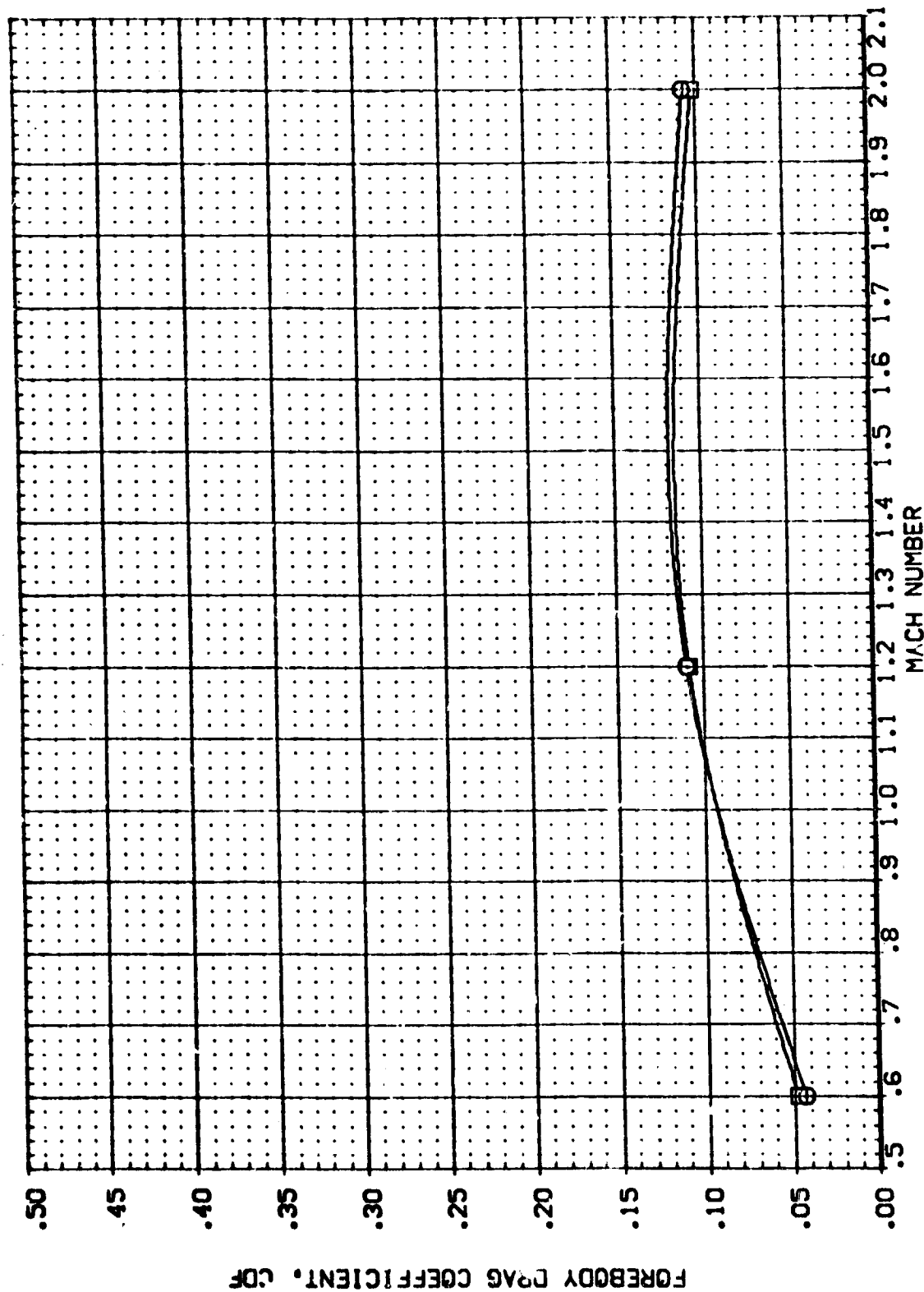


FIG. 6 WING CAMBER EFFECT

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(181024)	AVES 66-706 0A13 B10 CS 07 M3 F4 187218 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(181027)	AVES 66-706 0A13 B10 CS 07 M3 F4 188218 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

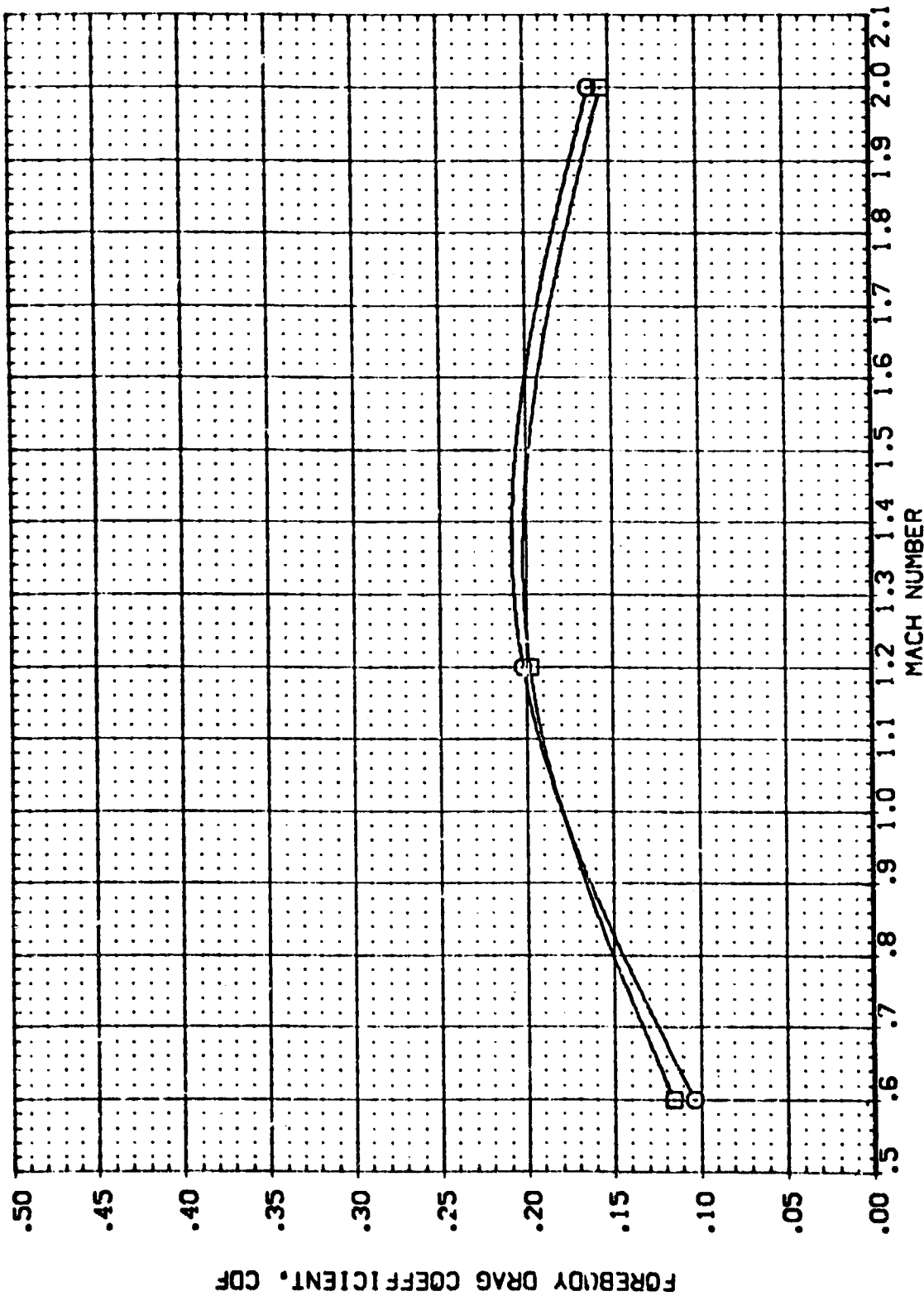


FIG. 6 WING CAMBER EFFECT

(B) ALPHA = 10.00

FOREBODY DRAG COEFFICIENT, CDF

FIG. 6 WING CAMBER EFFECT
(C)ALPHA = 20.00

DATA SET SYBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

SYBOL	DESCRIPTION	REF	SPDRK	RUDER	BOOFUP	ELEVON	SCALE
1-81004	AVES 66-706 0A13 810 CS 07 K3 F4 V87E18 V5R5	2650.0000	54.900	.000	-14.200	.000	100.0000
1-81027	AVES 66-706 0A13 810 CS 07 K3 F4 V88E18 V5R5	174.8000	54.900	.000	-14.200	.000	100.0000
		936.6870					100.0000
		1076.4800					100.0000
		.0000					100.0000
		.0150					100.0000

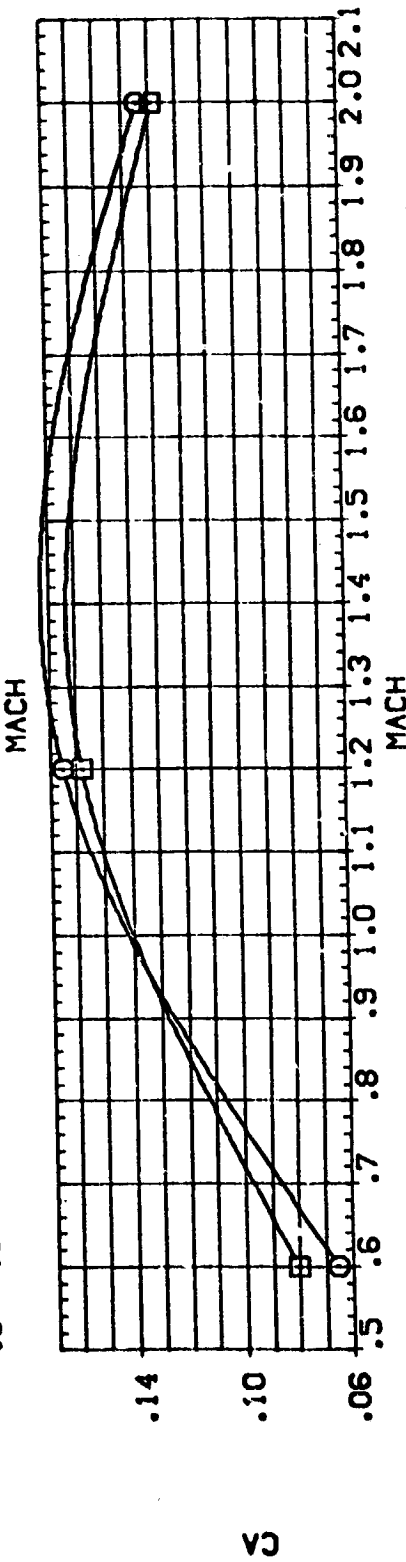
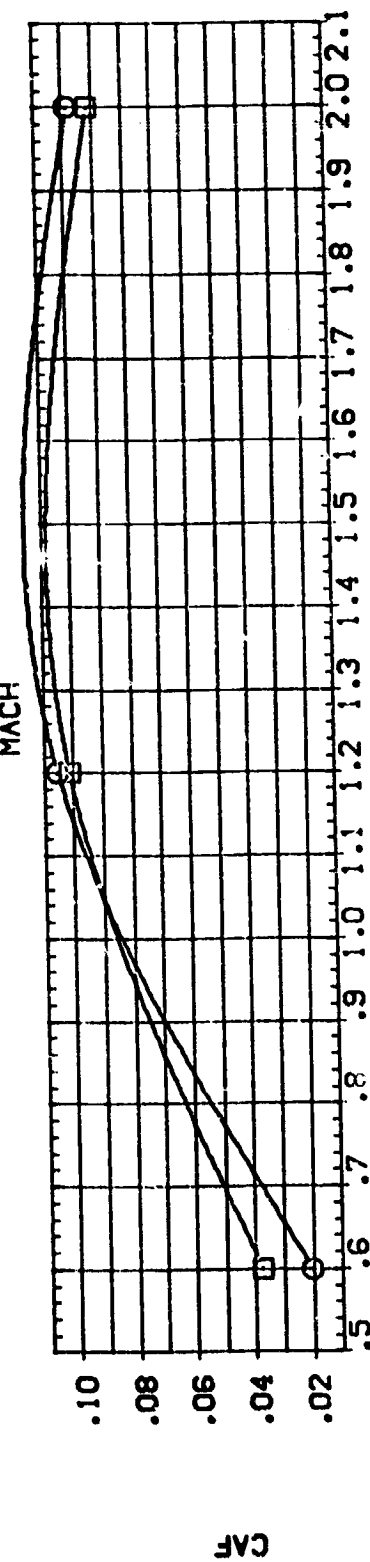
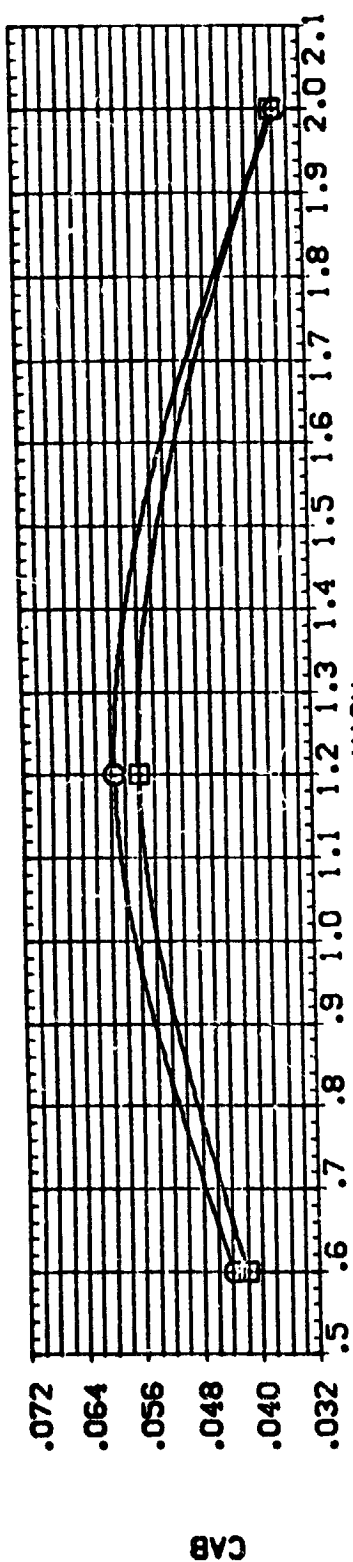


FIG. 6 WING CAMBER EFFECT
(B) ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF	SREF	LREF	BREF	X-TP	Y-TP	Z-TP	SCALE
[-81004]	AVES 65-706 0M3 B10 C5 D7 M3 F4 V87E18 V5R5	2630.0000	50. FT.						
[-81027]	AVES 65-706 0M3 B10 C5 D7 M3 F4 V88E18 V5R5	474.8000	IN.						
		936.6800	IN.						
		1076.4800	IN.						
		400.0000	IN.						
		.0150	SCALE						

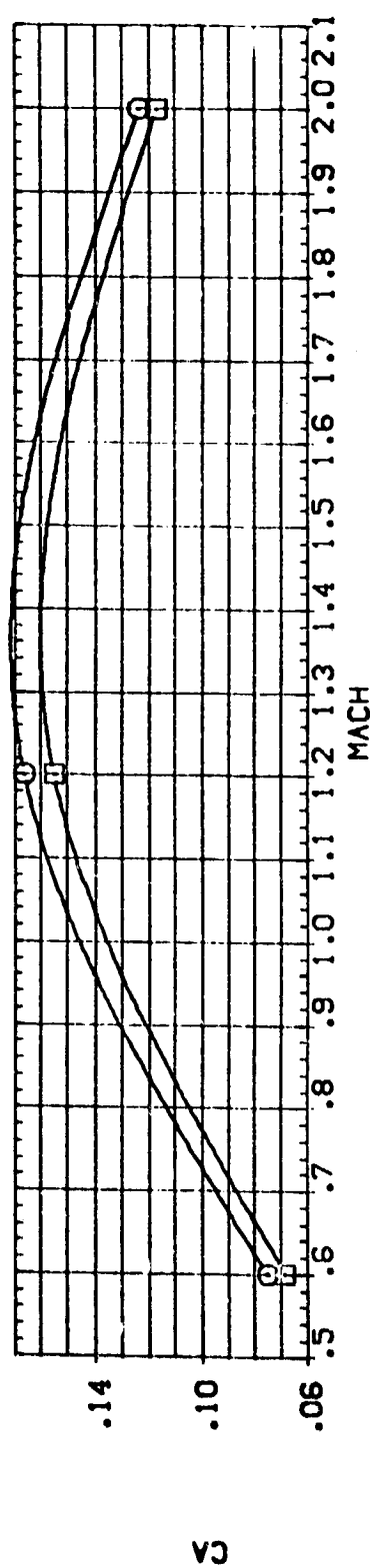
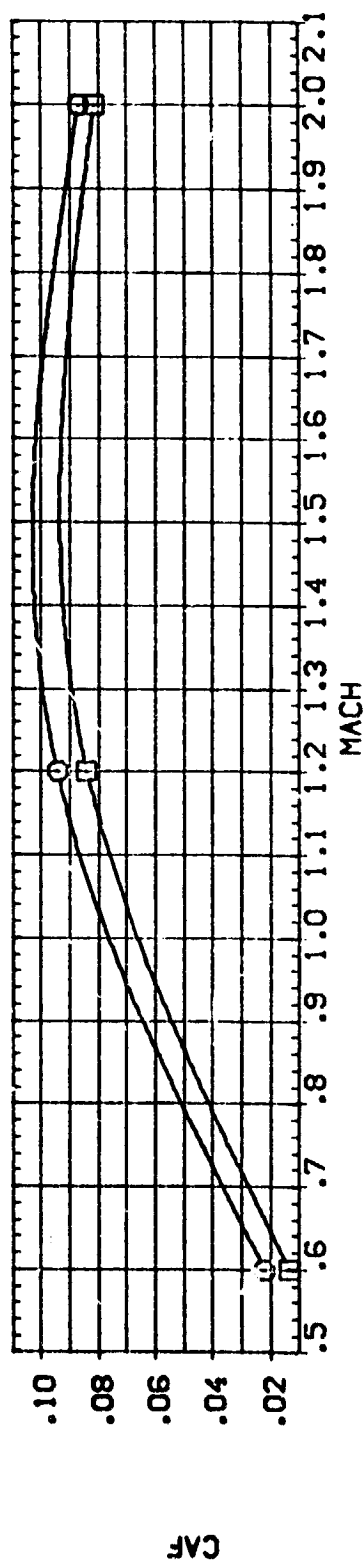
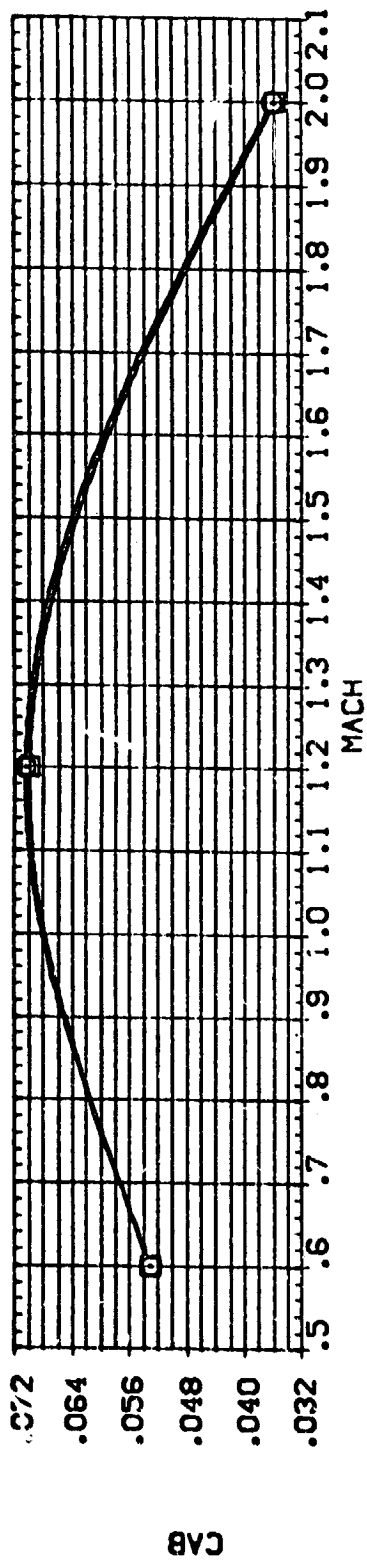


FIG. 6 WING CAMBER EFFECT
(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(+87004)	AVES 66-706 0A43 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(+87027)	AVES 66-706 0A43 B10 CS D7 F3 F4 V88E18 V5K5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YPRP 1076.4800 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

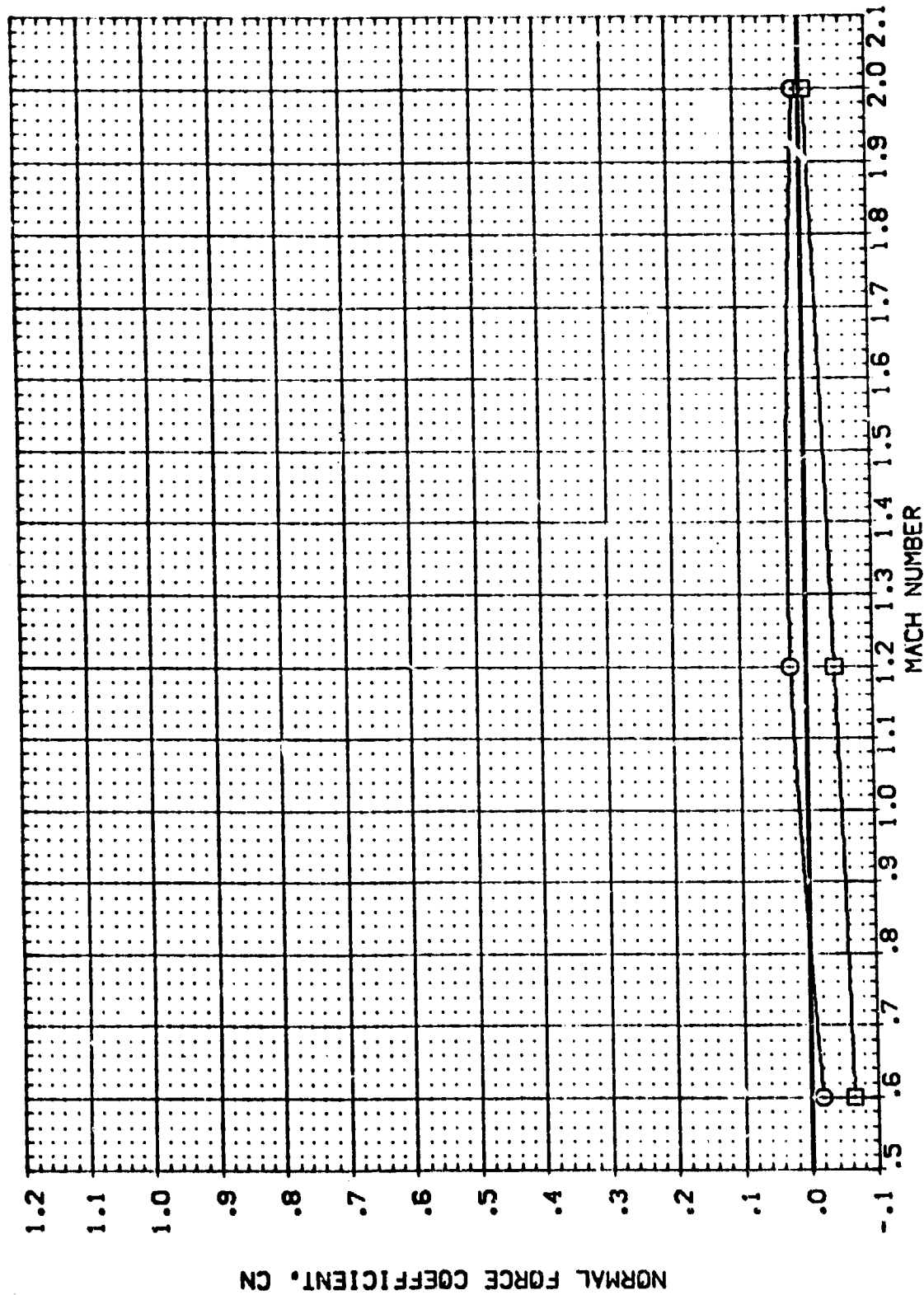


FIG. 6 WING CAMBER EFFECT

(A) ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(-81004)	□	-NES 65-705	DA43 B10 CS 07 K3 F4	187E18	VSR5	-14.200	.000	54.900	.000	SREF	2690.0000	90.FT.	
(-81027)	□	-NES 65-705	DA43 B10 CS 07 K3 F4	188E18	VSR5	-14.200	.000	54.500	.000	LREF	474.8000	IN.	
										BREF	936.6800	IN.	
										XPRP	1076.4800	IN.	
										YPRP	.0000	IN.	
										ZPRP	400.0000	IN.	
										SCALE	.0150	SCALE	

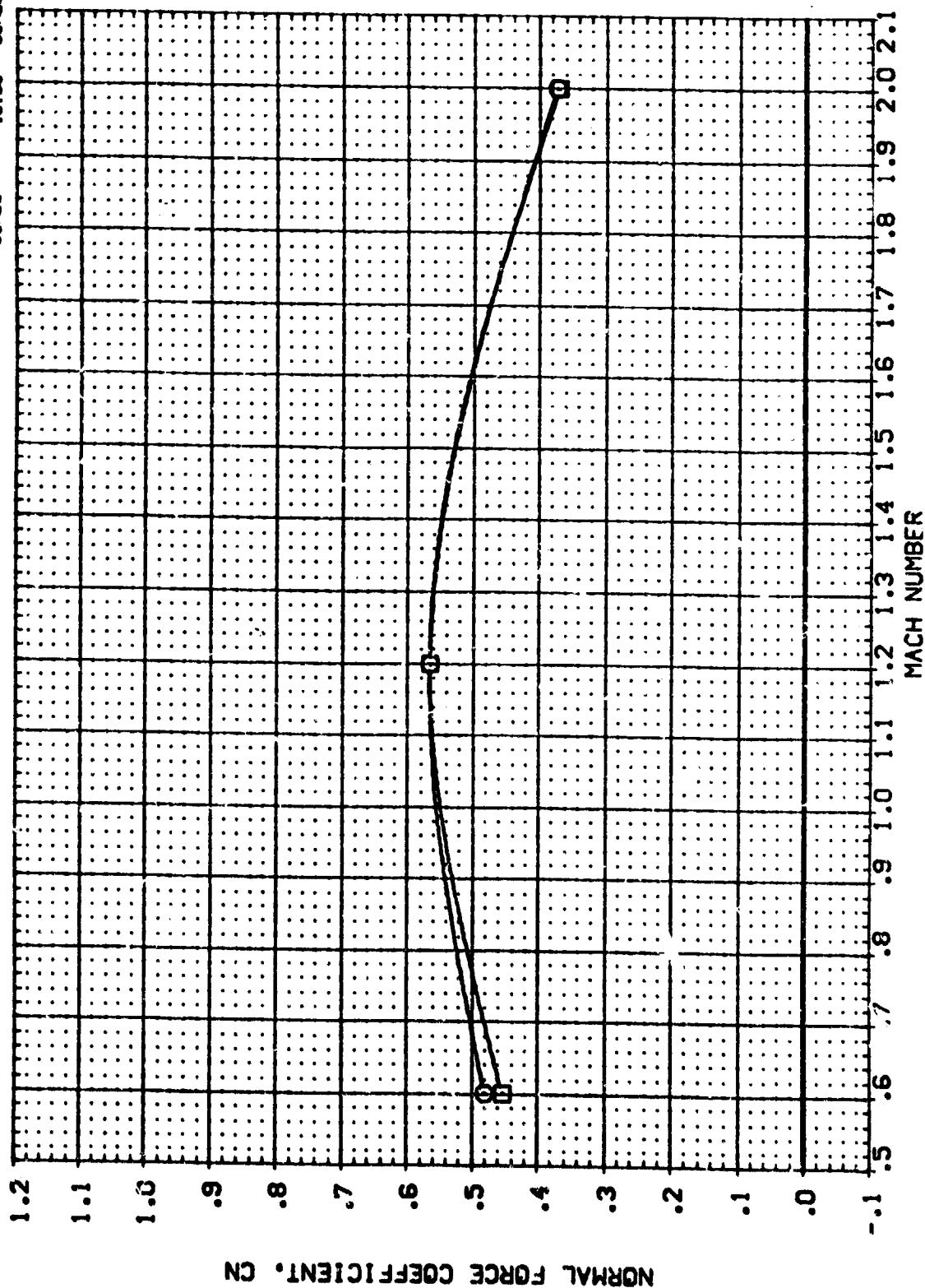


FIG. 6 WING CAMBER EFFECT
(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
87004	AVES 66-706 0A13 810 CS 07 M3 F4 V87E18 VS85	-14.200	.000	54.900	.000	PREF 2690.0000 SQ.FT.
87007	AVES 66-706 0A13 810 CS 07 M3 F4 V88E18 VS85	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YPRP 1076.4800 IN.
						ZPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

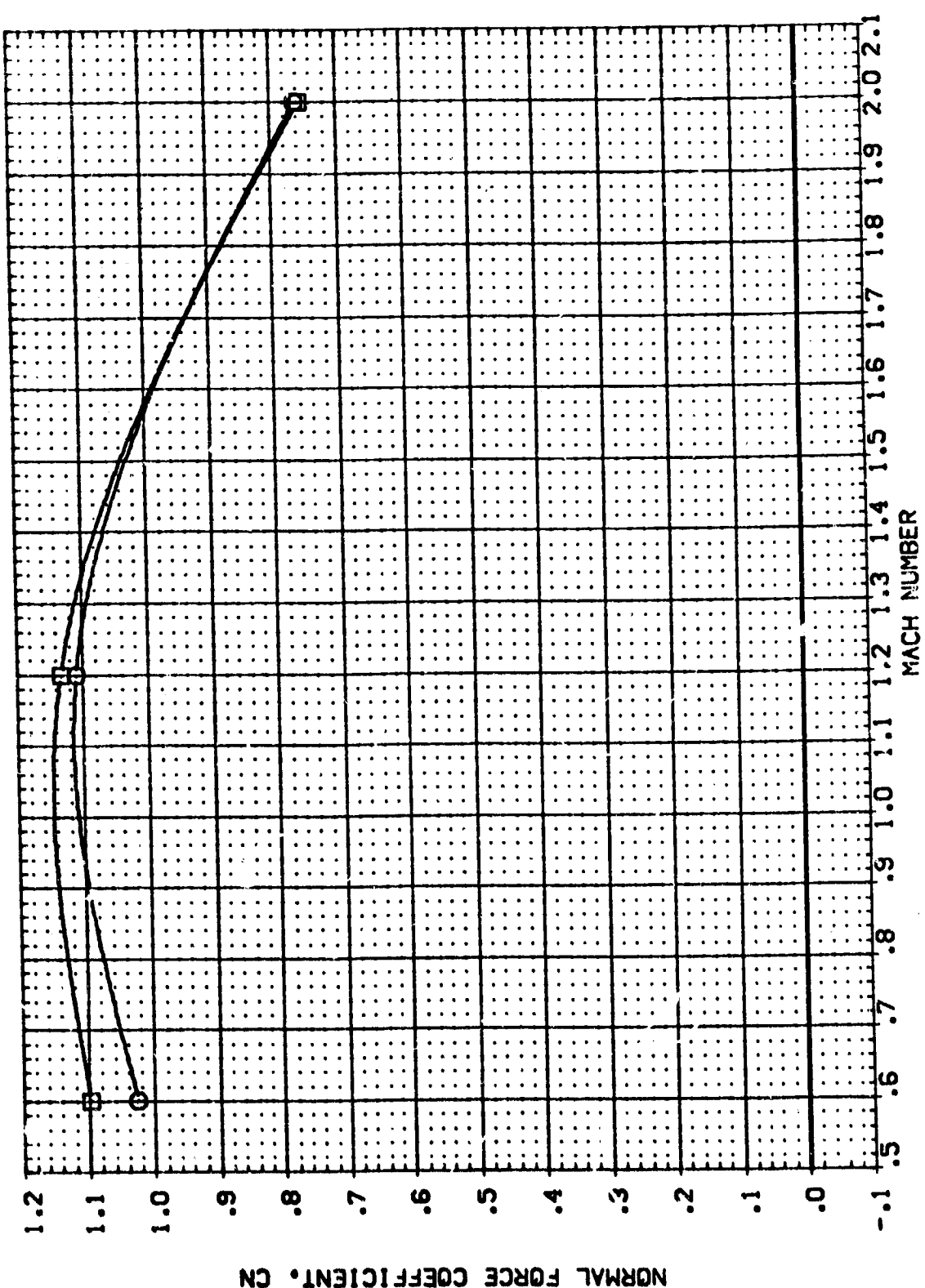
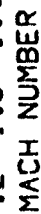


FIG. 6 WING CAMBER EFFECT
(C)ALPHA = 20.00

NAME	SSN	DOB	POB	SEX	RACE	REL	STATUS	REMARKS
AMES	66-706	04-13	8-10	C5	D7	M3	F4	V87E18 V5R5
AMES	66-706	04-13	8-10	C5	D7	M3	F4	V88E18 V5R5



(B) ALPHA = 10.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[148T022]	ANES 66-705 0A13 B10 CS D7 M3 F4 V87E18 VS95	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[148T027]	ANES 66-705 0A13 B10 CS D7 M3 F4 V88E18 VS95	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

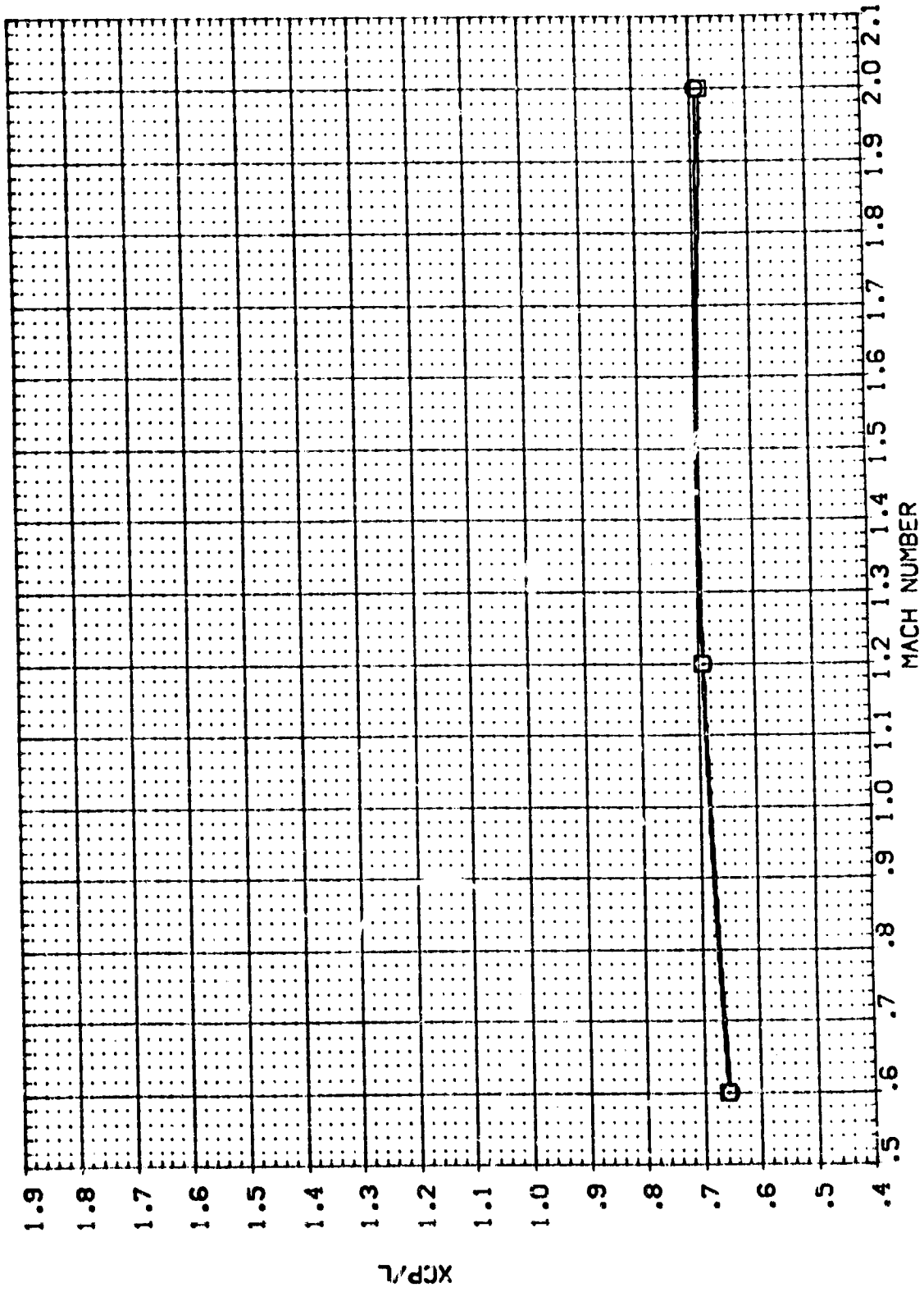


FIG. 6 WING CAMBER EFFECT
(C)ALPHA = 20.00

2-3

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(M81004)	MES 66-706 CA13 B10 C5 D7 M3 F4 X87E18 VS05	-14.200	.000	54.900	.000	SREF 2000.0000 SQ.FT.
(M81027)	MES 66-706 CA13 B10 C5 D7 M3 F4 V88E18 VS05	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

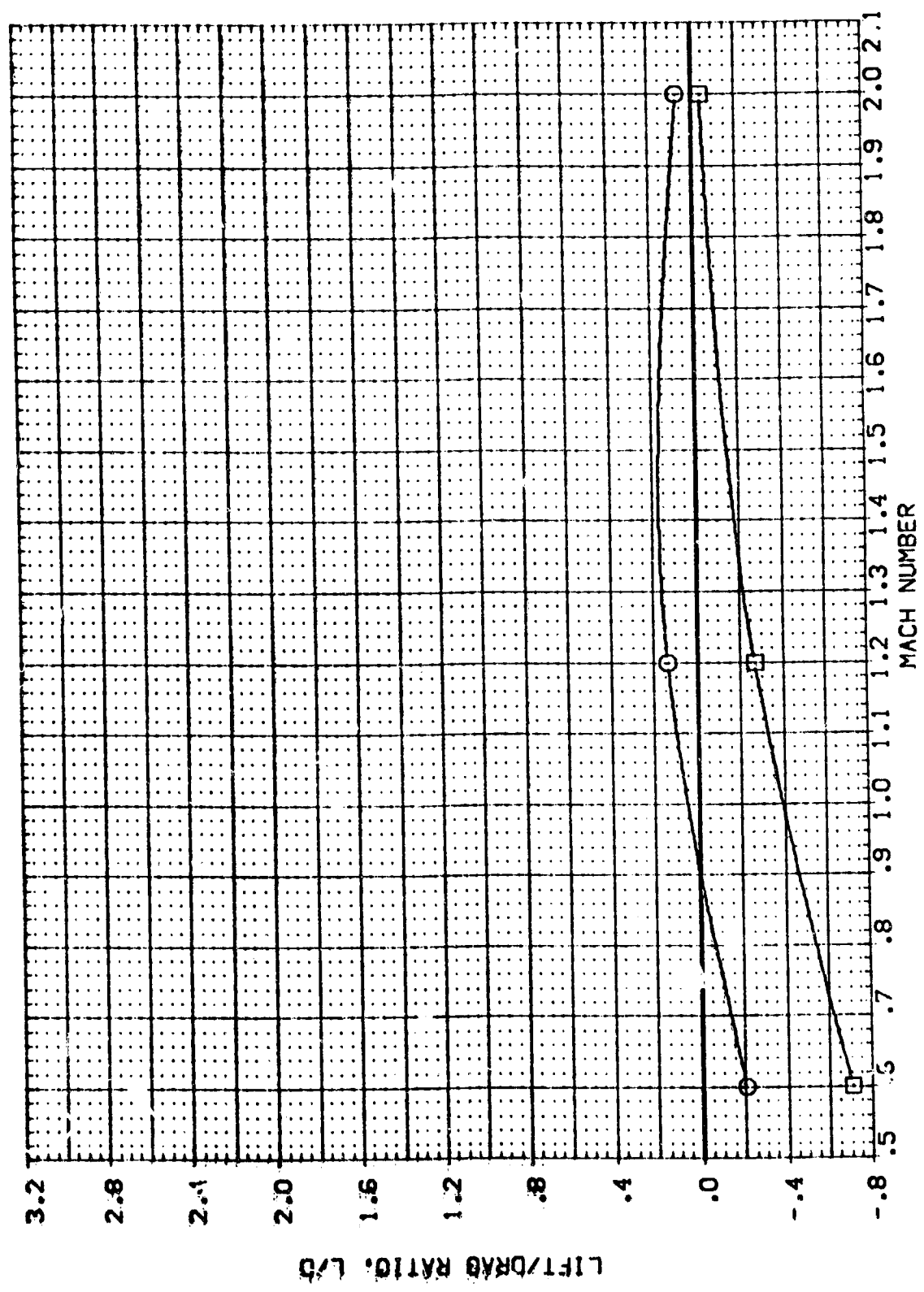


FIG. 6 WING CAMBER EFFECT
CAJALPHA = .00

DATA SET SYMBOL: (H8T004) (H8T027) CONFIGURATION DESCRIPTION: AYES 66-706 0A13 B10 CS 07 H3 F4 V87E18 V5R5 AYES 66-706 0A13 B10 CS 07 H3 F4 V88E18 V5R5

800FLP: -14.200 -14.200
ELEVON: .000 .000
SP0SRK: 54.500 54.500
RUDDER: .000 .000

REFERENCE INFORMATION:
SREF: 2690.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6600 IN.
XMRP: 1076.4800 IN.
YMRP: .0000 IN.
ZMRP: 400.0000 IN.
SCALE: .0150

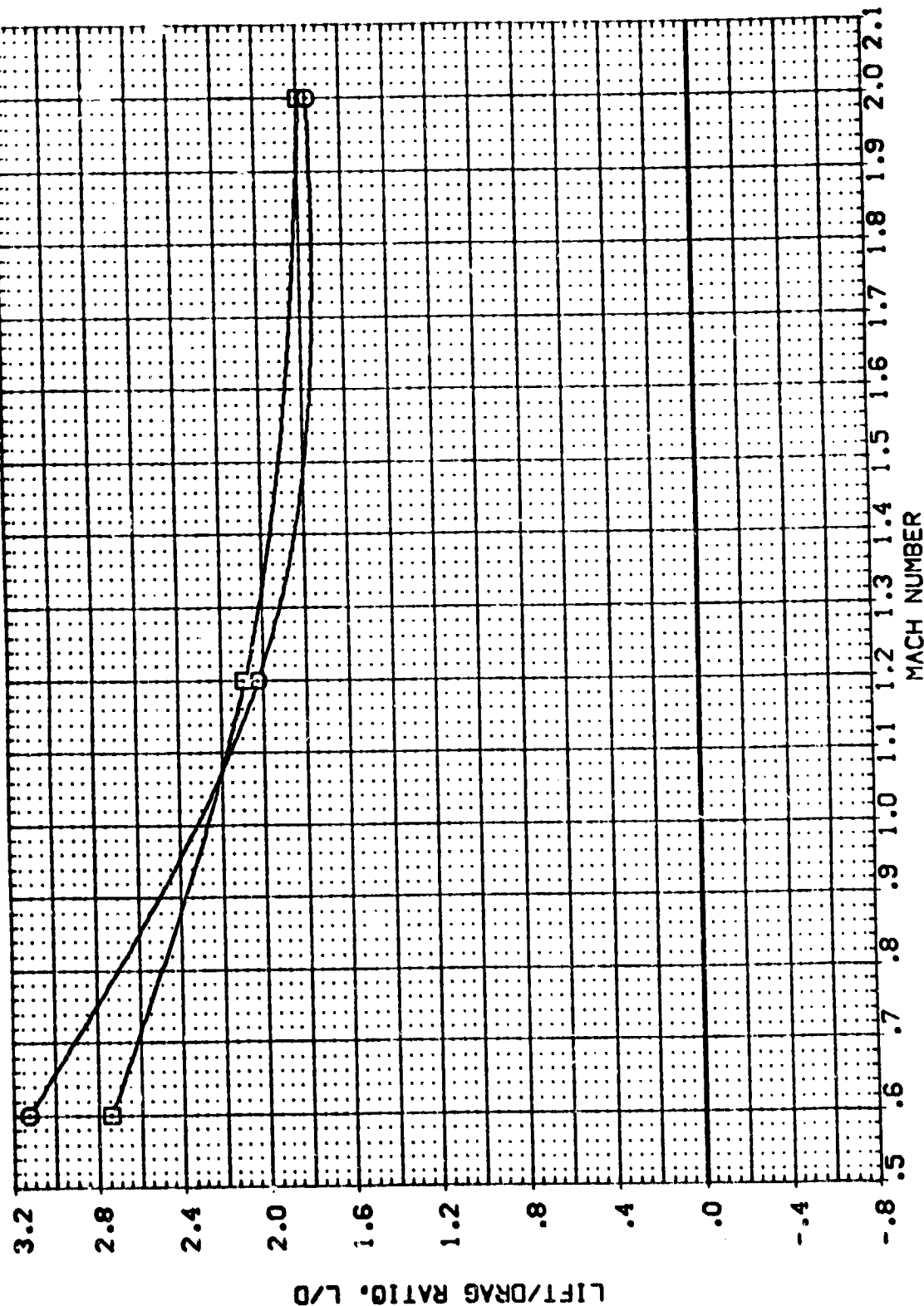


FIG. 6 WING CAMBER EFFECT

(B) ALPHA = 10.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION		
[1487004]	[1487027]	WES 65-706	Q43	B10	CS	D7	M3	F4	V87E18	V945		REF	2880.0000	90.0000
		WES 65-706	Q43	B10	CS	D7	M3	F4	V88E18	V945		LINEF	474.8000	IN.
												REF	936.6800	IN.
												XPRP	1076.1800	IN.
												YPRP	0.0000	IN.
												ZPRP	400.0000	IN.
												SCALE	.0150	SCALE

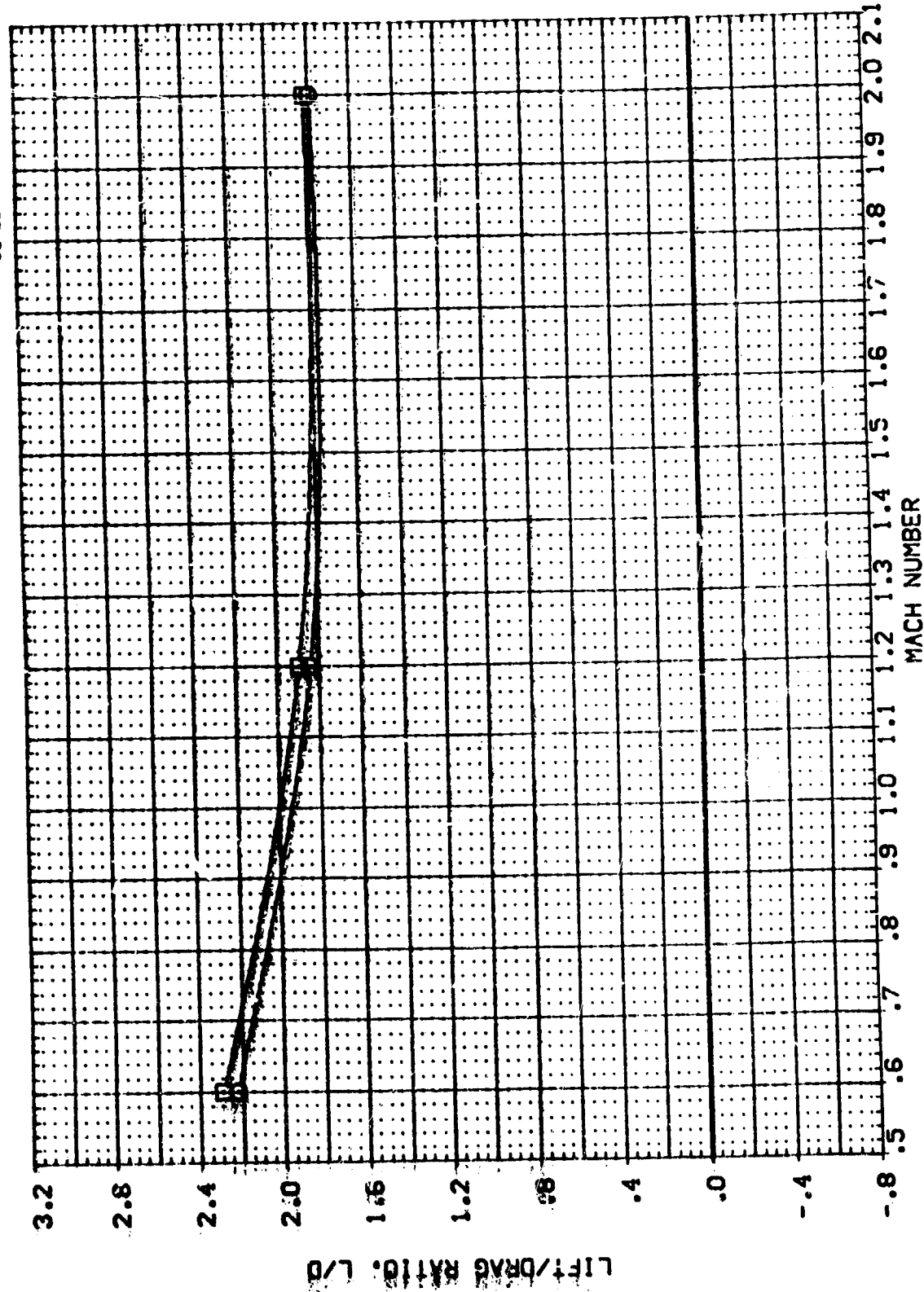


FIG. 6 WING CAMBER EFFECT

(C) ALPHA = 20.00



DATA SET SYM-BOL: [148'004] [148'027] ☐ ☐

CONFIGURATION DESCRIPTION: AYES 66-706 CM43 B10 CS 07 M3 F4 V67E18 V5K5 AYES 66-706 CM43 B10 CS 07 M3 F4 V68E18 V5K5

BOOFLP: -14.200 -14.200

ELEVON: .000 .000

SP05BK: 54.900 54.900

FLUDER: .000 .000

REFERENCE INFORMATION:

	REF	IN.	SCALE
SREF	2650.0000	50.0000	1.0000
LREF	474.8700	1.0000	1.0000
BREF	536.6800	1.0000	1.0000
X-REF	1076.4800	1.0000	1.0000
Y-REF	100.0000	1.0000	1.0000
Z-REF	100.0000	1.0000	1.0000
SCALE	10150	1.0000	1.0000

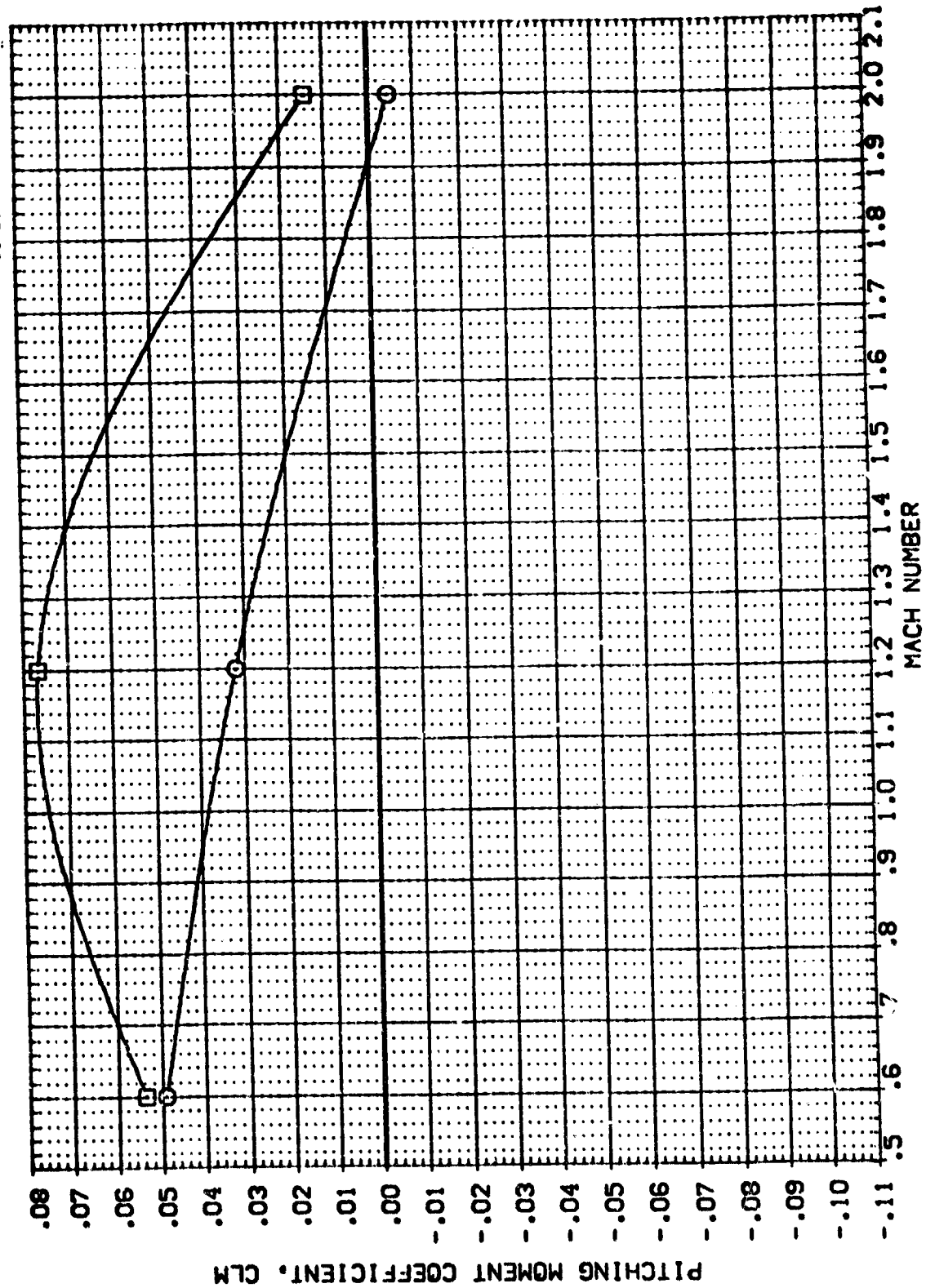


FIG. 6 WING CAMBER EFFECT

(A) ALPHA = .00

DATA SET SYMBOL ~ CONFIGURATION DESCRIPTION

[181004] 8 ASES 66-706 0413 B13 CS D7 K3 F4 V07E18 V545

[181027] 1 ASES 66-706 0413 B10 CS D7 K3 F4 V08E18 V545

ROOF LIP ELEVON SPOON ROILER

-14.200 .000 .000 .000

-14.200 .000 .000 .000

REFERENCE INFORMATION

REF 2000.0000 90.000

REF 174.0000 10.000

REF 1076.0000 10.000

REF 400.0000 10.000

SCALE 0.150

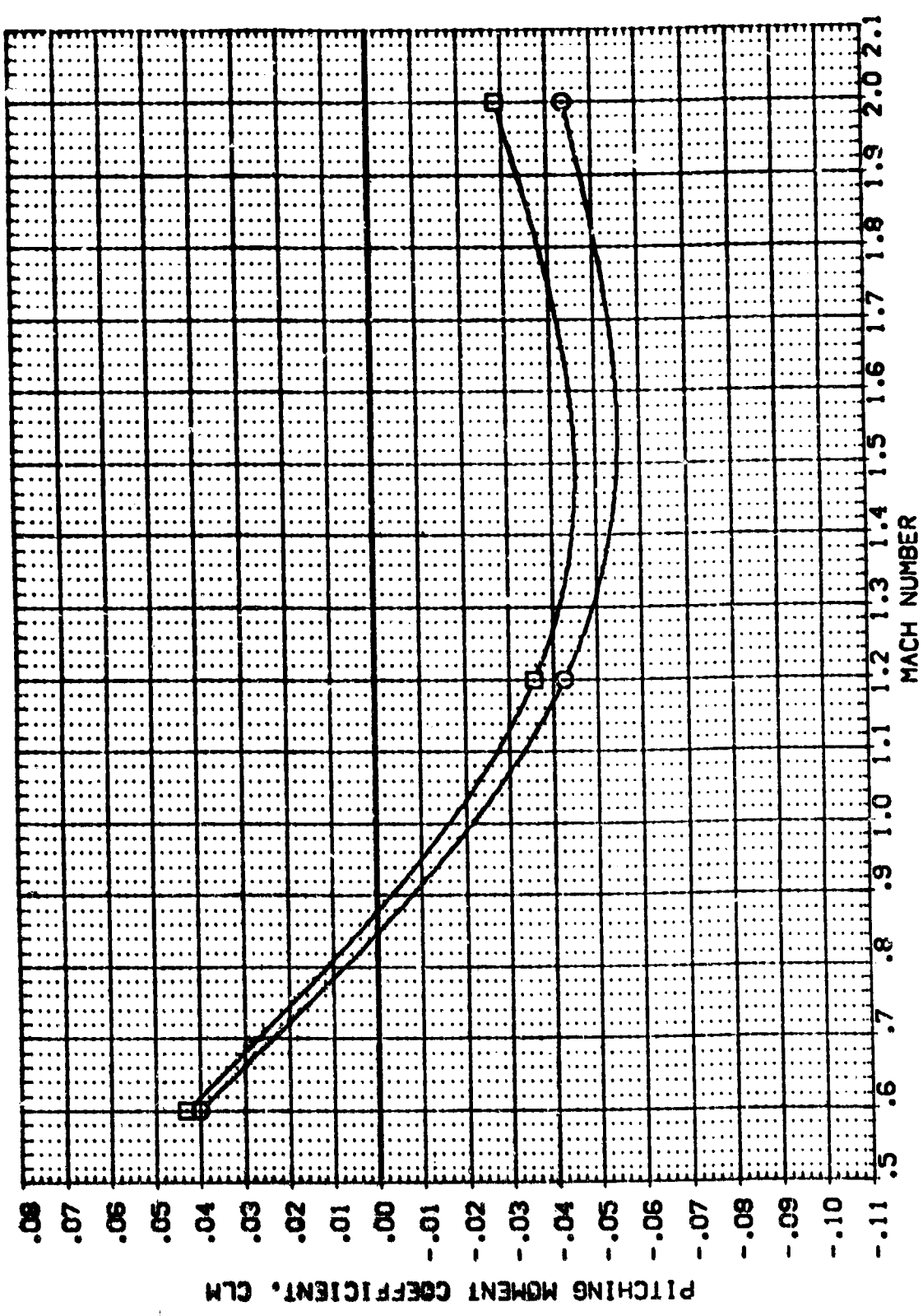


FIG. 6 WING CAMBER EFFECT

(B)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SP08M	FL00R	REFERENCE INFORMATION
(+81004)	AVES 65-705 0M43 810 CS 07 PG F4 487E18 V505	-14.200	.000	54.500	.000	9REF 2850.0000 90.FT.
(+81027)	AVES 65-705 0M43 810 CS 07 PG F4 488E18 V505	-14.200	.000	54.500	.000	LREF 474.0000 IN.
						9REF 938.0000 IN.
						YREF 1078.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

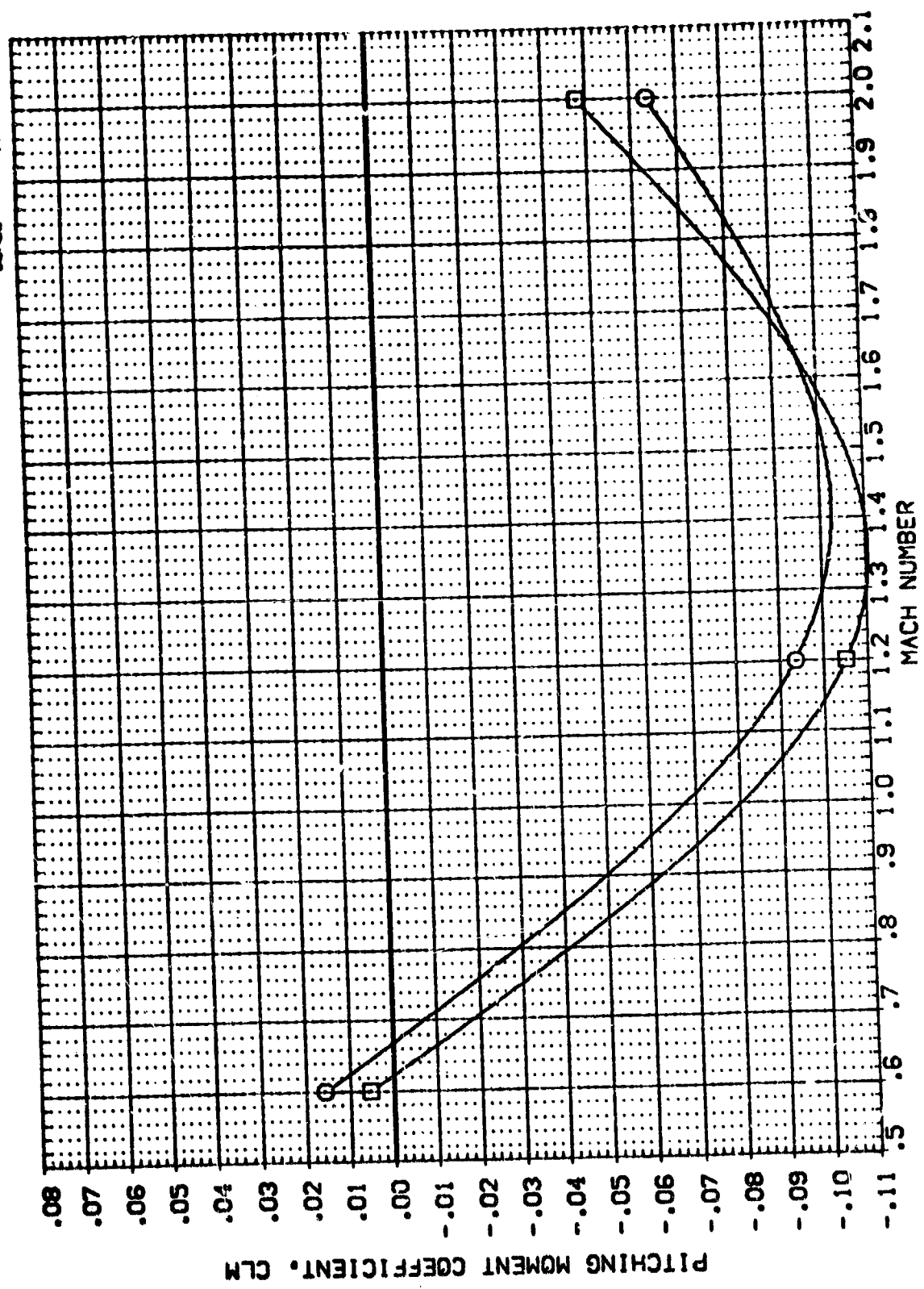


FIG. 6 WING CAMBER EFFECT

(C) ALPHA = 20.00

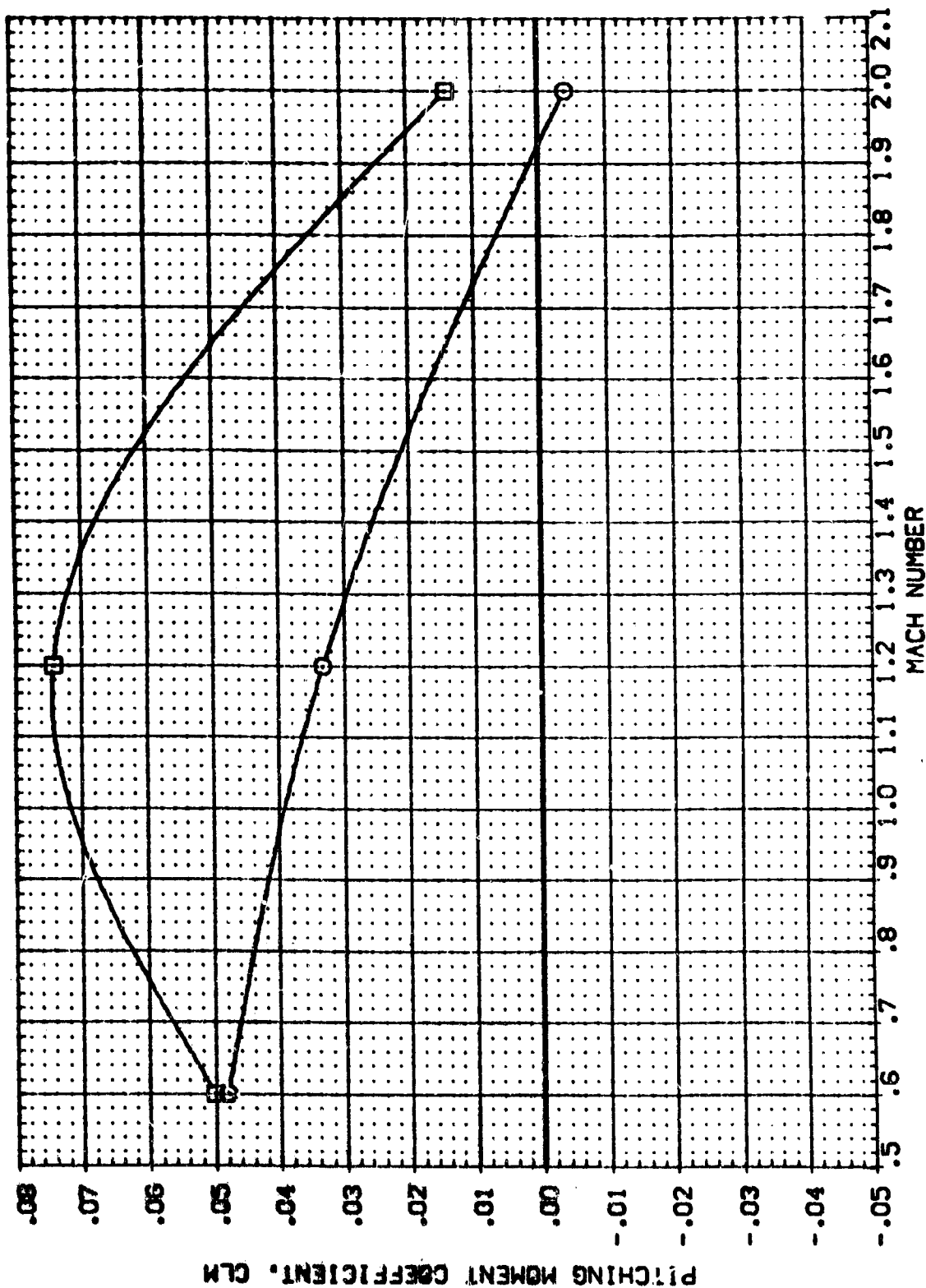
[illegible]

FIG. 6 WING CAMBER EFFECT (AFT C.G.)

CALLPH = 00



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPURK		RUDDER		REFERENCE INFORMATION	
{ 187024 }	{ 187027 }	APES 65-705	DA13 B10 CS D7 MG F4 V87E18 V5R5	-14.200	.000	54.900	.000	.000	.000	SREF	2800.0000
		APES 65-705	DA13 B10 CS D7 MG F4 V88E18 V5R5	-14.200	.000	54.900	.000	.000	.000	LREF	474.0000
										SREF	508.0000
										XREF	1103.2400
										YREF	0.0000
										ZREF	400.0000
										SCALE	.0150
											90.0°

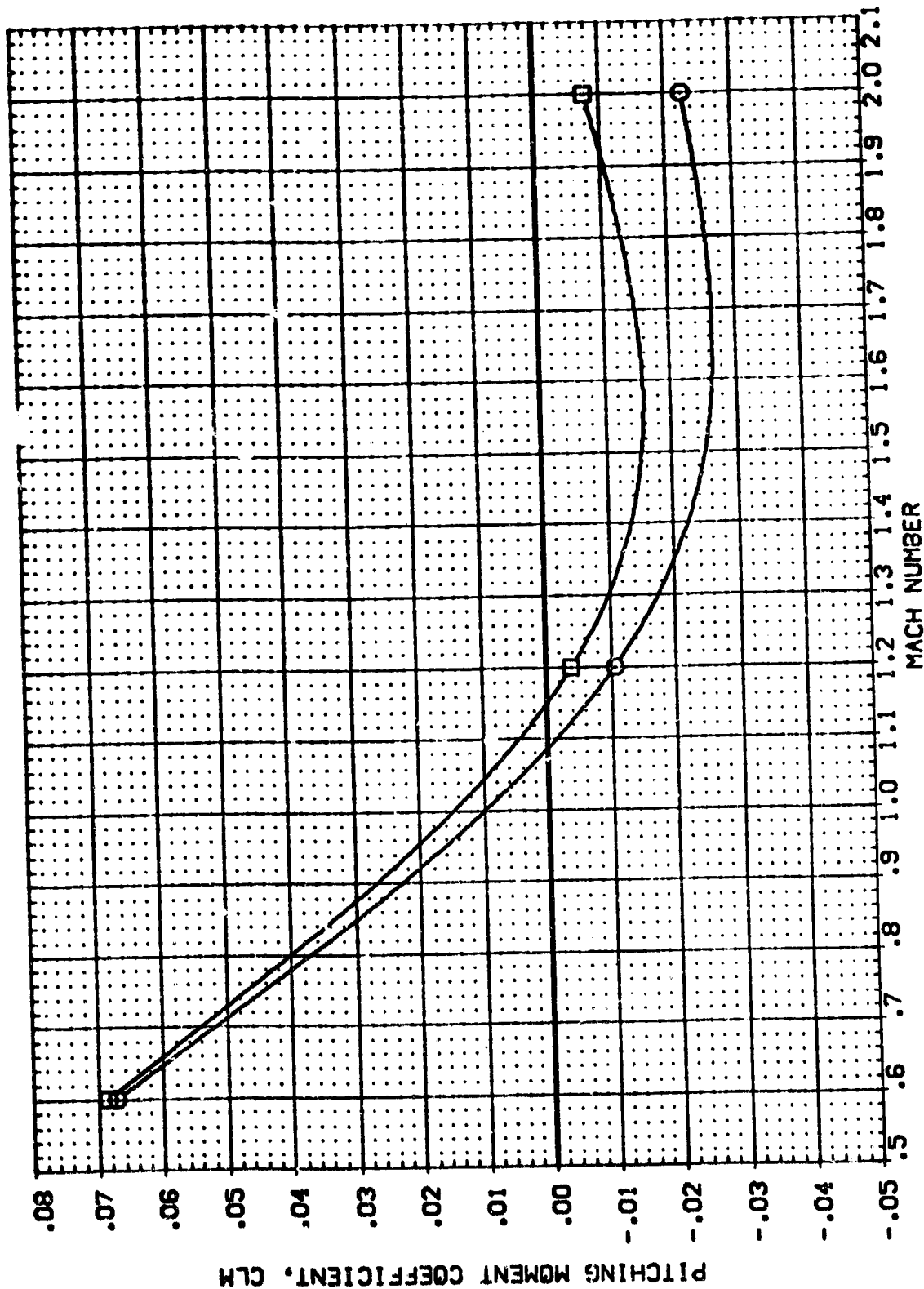


FIG. 6 WING CAMBER EFFECT (AFT C.G.)

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(181004)	AMES 66-706 0A43 810 CS 07 M3 F4 087E18 VS25	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(181027)	AMES 66-706 0A43 810 CS 07 M3 F4 088E18 VS45	-14.200	.000	54.900	.000	LREF	474.8000 IN.
						BREF	936.6000 IN.
						XREF	1103.2400 IN.
						YREF	.0000 IN.
						ZREF	400.0000 IN.
						SCALE	.0150 SCALE

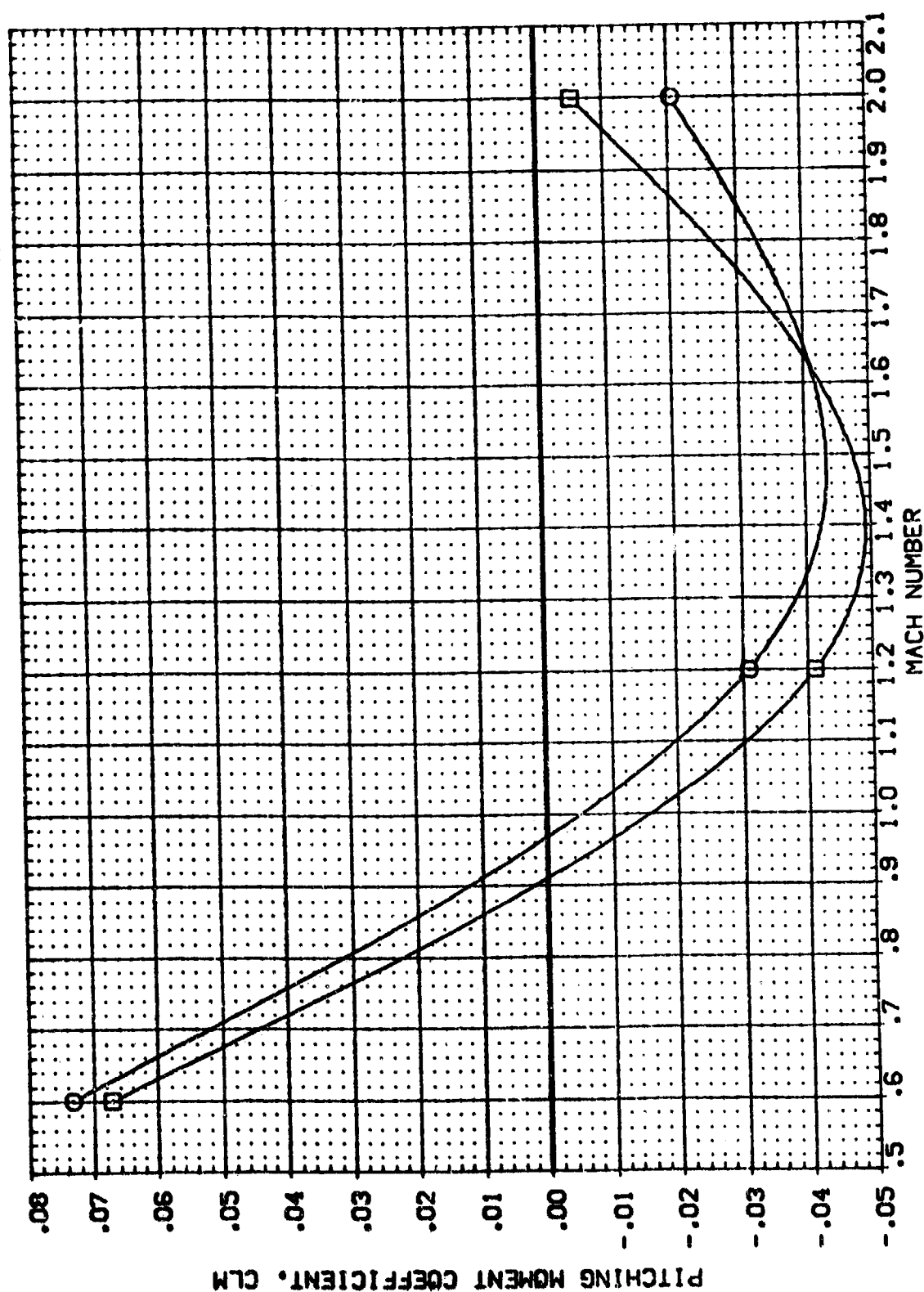


FIG. 6 WING CAMBER EFFECT (AFT C.G.)

(C)ALPHA = 20.00

DATA SET SYMB. CONFIGURATION DESCRIPTION

DATA SET SYMB.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPORBK	RUDER	REFERENCE INFORMATION
APES 68-708 DM3 B10 CS D7 K3 F4 M87E18 VSRS		-14.200	10.000	54.500	.000	SREF 2650.0000 50. FT.
APES 68-708 DM3 B10 CS D7 K3 F4 M87E18 VSRS		-14.200	10.000	54.500	.000	LREF 474.8000 IN.
APES 68-708 DM3 B10 CS D7 K3 F4 M87E18 VSRS		-14.200	10.000	54.500	.000	BREF 936.8000 IN.
APES 68-708 DM3 B10 CS D7 K3 F4 M87E18 VSRS		-14.200	10.000	54.500	.000	YREF 1076.4000 IN.
APES 68-708 DM3 B10 CS D7 K3 F4 M87E18 VSRS		-14.200	10.000	54.500	.000	ZREF 400.0000 IN.
DATA NOT AVAILABLE		-14.200	10.000	54.500	.000	SCALE .0150

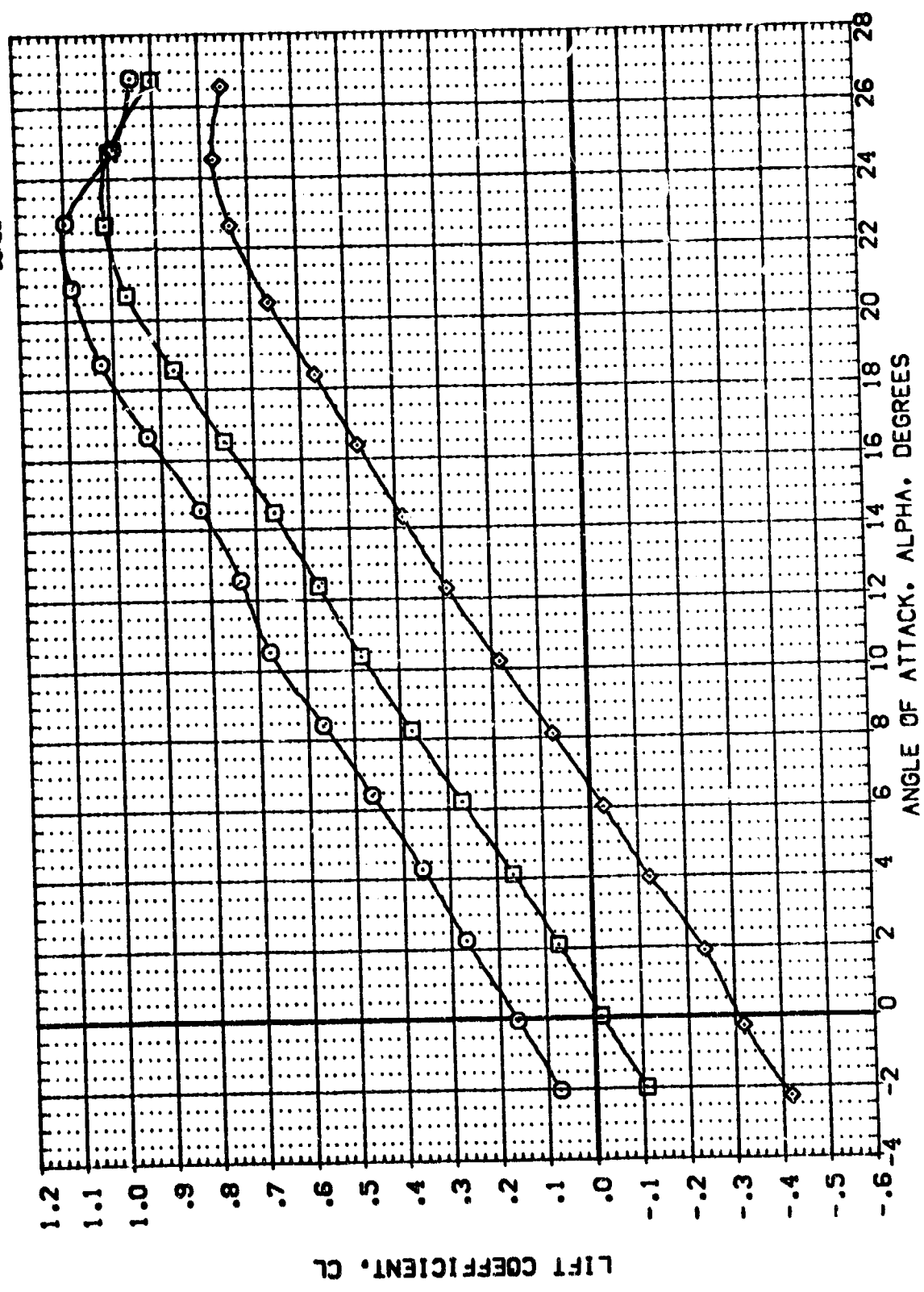


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	FLUDGR	REFERENCE INFORMATION
(REF1001)	AMES 88-708 CM43 B10 D7 F4 V87E18 V89G	-14.200	10.000	54.800	.000	REF 2630.0000 90. FT.
(REF1002)	AMES 88-708 CM43 B10 D7 F4 V87E18 V89G	-14.200	.000	54.800	.000	REF 474.8000 IN.
(REF1003)	AMES 88-708 CM43 B10 D7 F4 V87E18 V89G	-14.200	-20.000	54.800	.000	REF 938.8000 IN.
(REF1004)	AMES 88-708 CM43 B10 D7 F4 V87E18 V89G	-14.200	-40.000	54.800	.000	REF 1076.4800 IN.
						REF 400.0000 IN.
						REF 400.0000 IN.
						SCALE .0150

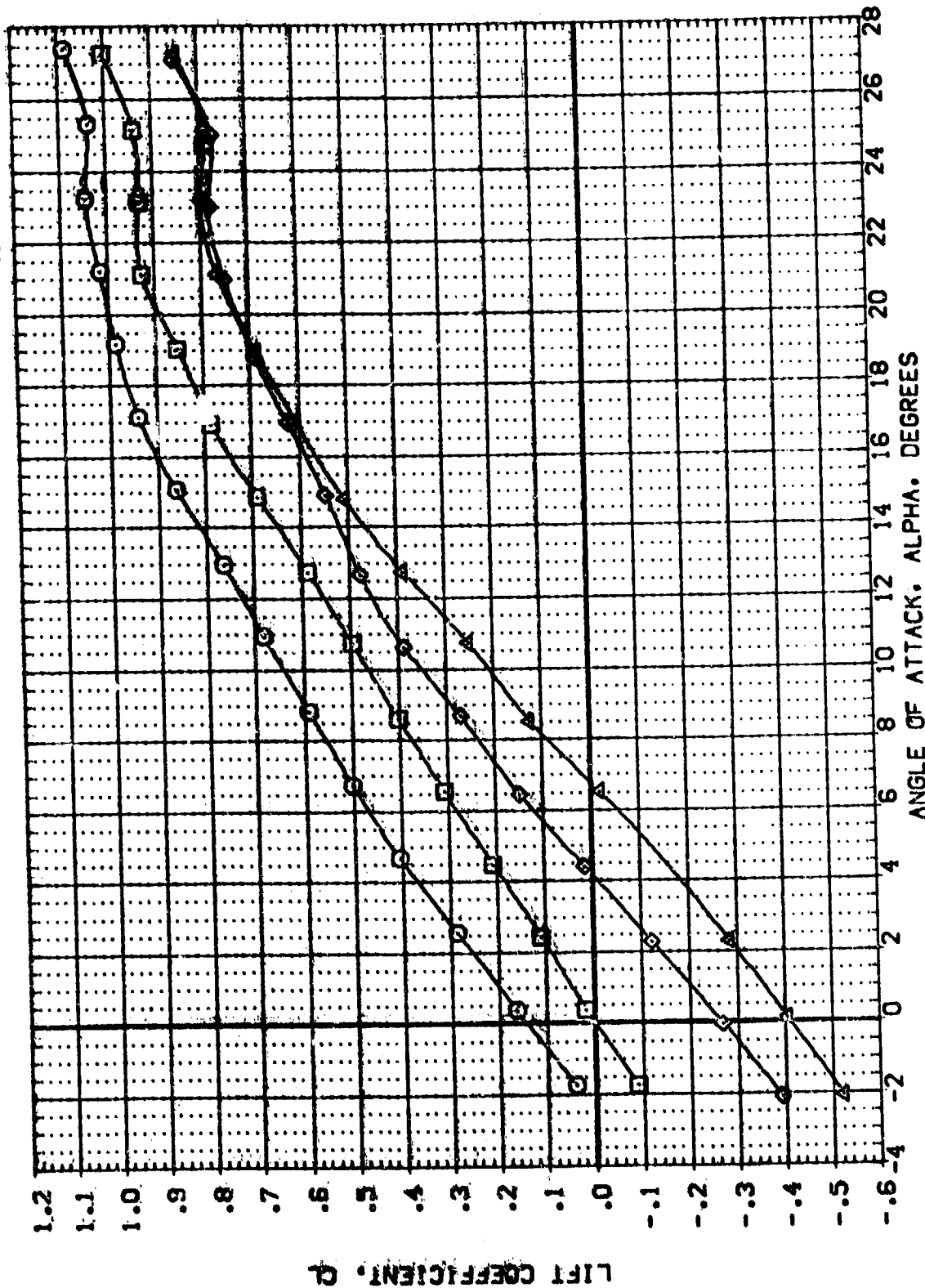


FIG. 7 ELEVONS DEFLECTED

(B) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(RBT005)	□	AVES 66-706 DA43 B10 C3 D7 M3 F4 V67E18 V5V5	-14.200	10.000	54.900	.000	SREF 2690.0000 IN. FT.
(RBT004)	○	AVES 66-706 DA43 B10 C3 D7 M3 F4 V67E18 V5V5	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	△	AVES 66-706 DA43 B10 C3 D7 M3 F4 V67E18 V5V5	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	×	AVES 66-706 DA43 B10 C3 D7 M3 F4 V67E18 V5V5	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
							YREF 400.0000 IN.
							ZREF 100.0000 IN.
							SCALE .0150

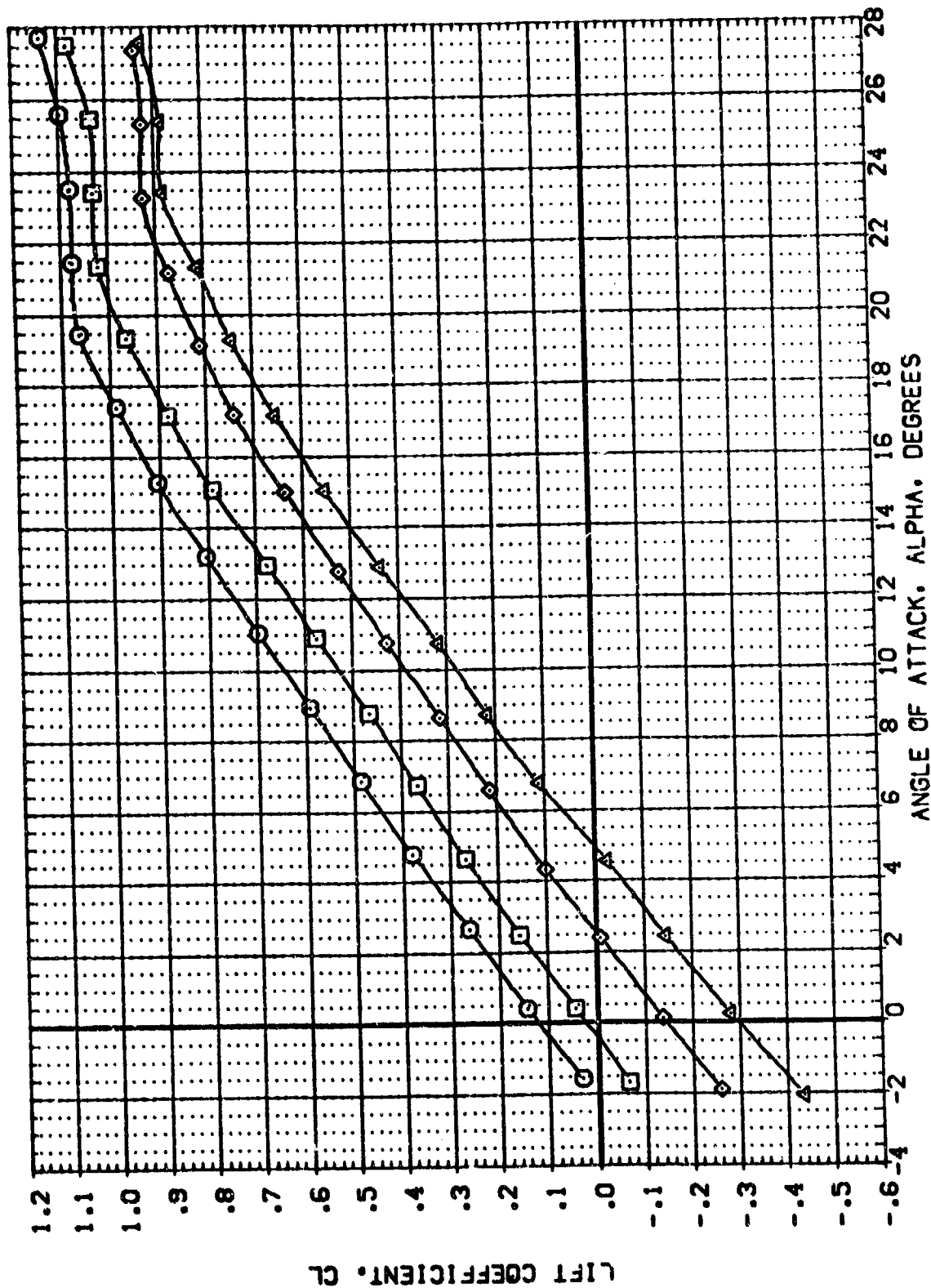


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPDRBK		RUDDER		REFERENCE INFORMATION						
(RBT005)	ANES 68-705	DA43	B10	C5	D7	M3	F4	VB7E18	V5RS	-14.200	10.000	54.500	.000	.000	2880.0000	50. FT.
(RBT004)	ANES 68-705	DA43	B10	C5	D7	M3	F4	VB7E18	V5RS	-14.200	.000	54.500	.000	.000	474.8000	IN.
(RBT022)	ANES 68-705	DA43	B10	C5	D7	M3	F4	VB7E18	V5RS	-14.200	-28.000	54.500	.000	.000	936.6800	IN.
(RBT006)	ANES 68-705	DA43	B10	C5	D7	M3	F4	VB7E18	V5RS	-14.200	-40.000	54.500	.000	.000	1076.4800	IN.
										YMRP	400.0000	IN.				
										ZMRP	.0000	IN.				
										SCALE	.0150	IN.				

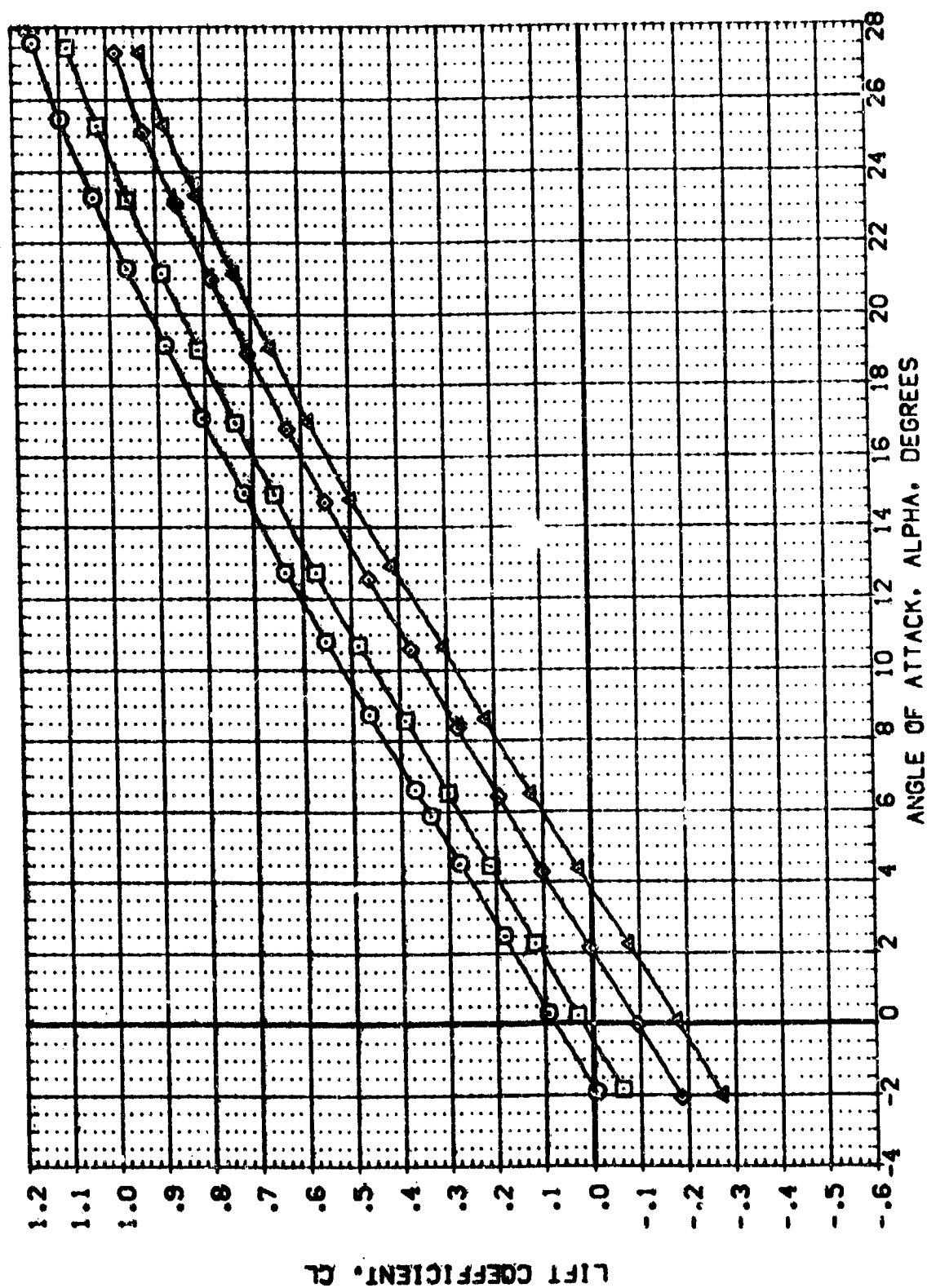
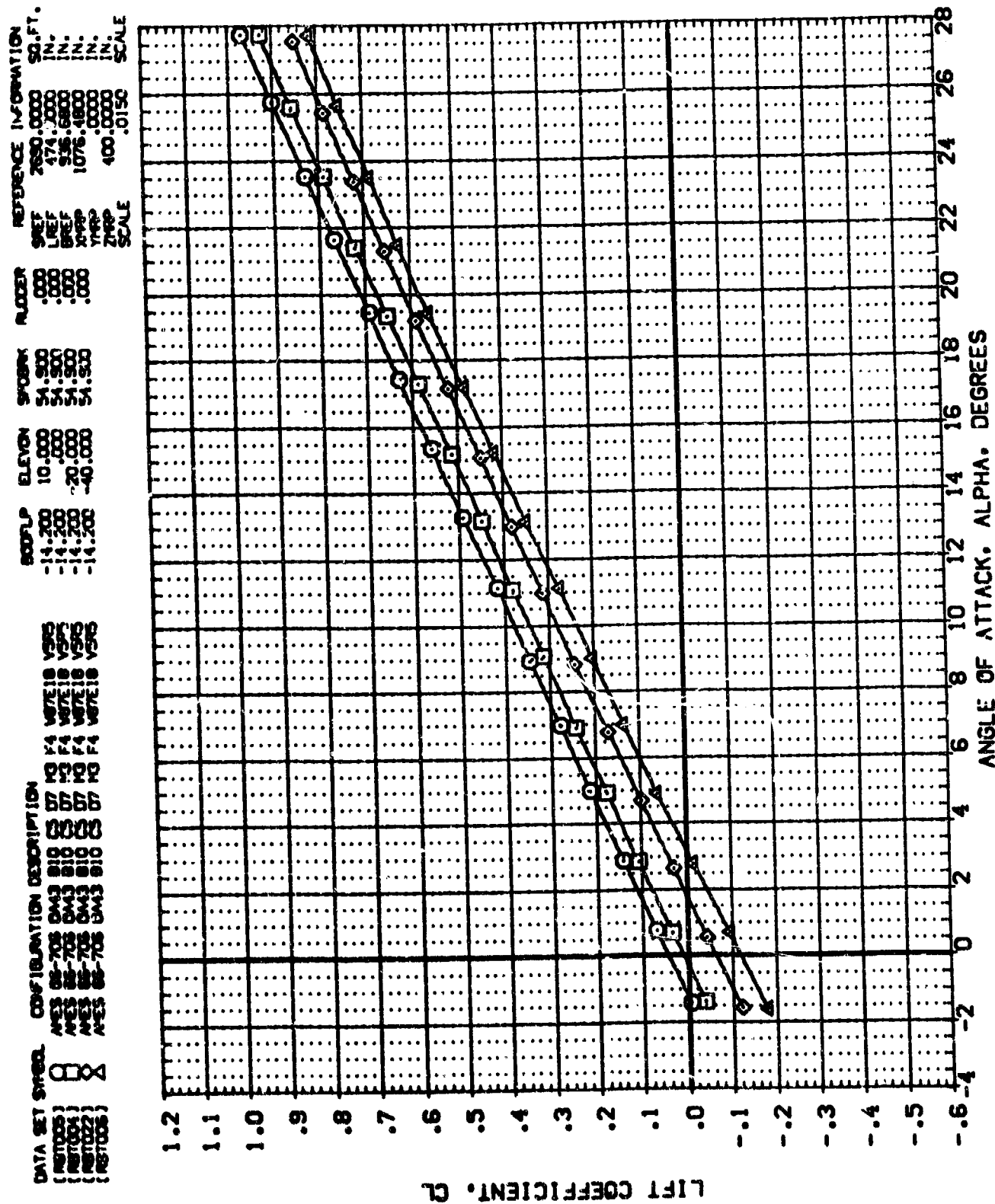



FIG. 7 ELEVONS DEFLECTED

(Q)MACH = 1.50



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DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: AYES 05-705 0A13 810 CS 07 PG F4 V87E18 V88G
 AYES 05-705 0A13 810 CS 07 PG F4 V87E18 V88G
 AYES 05-705 0A13 810 CS 07 PG F4 V87E18 V88G
 DATA NOT AVAILABLE

ROOF PJ ELEVON SPORON RUDDER REFERENCE INFORMATION

ROOF PJ	ELEVON	SPORON	RUDDER	REF	2880.0000	90.00
-14.200	10.000	54.800	.000	LAEF	474.8000	IN
-14.200	10.000	54.800	.000	YAEF	506.8000	IN
-14.200	20.000	54.800	.000	YAEF	1076.4800	IN
-14.200	-60.000	54.800	.000	YAEF	1076.4800	IN
				YAEF	400.0000	IN
				YAEF	400.0000	IN
				SCALE	.0150	SCALE

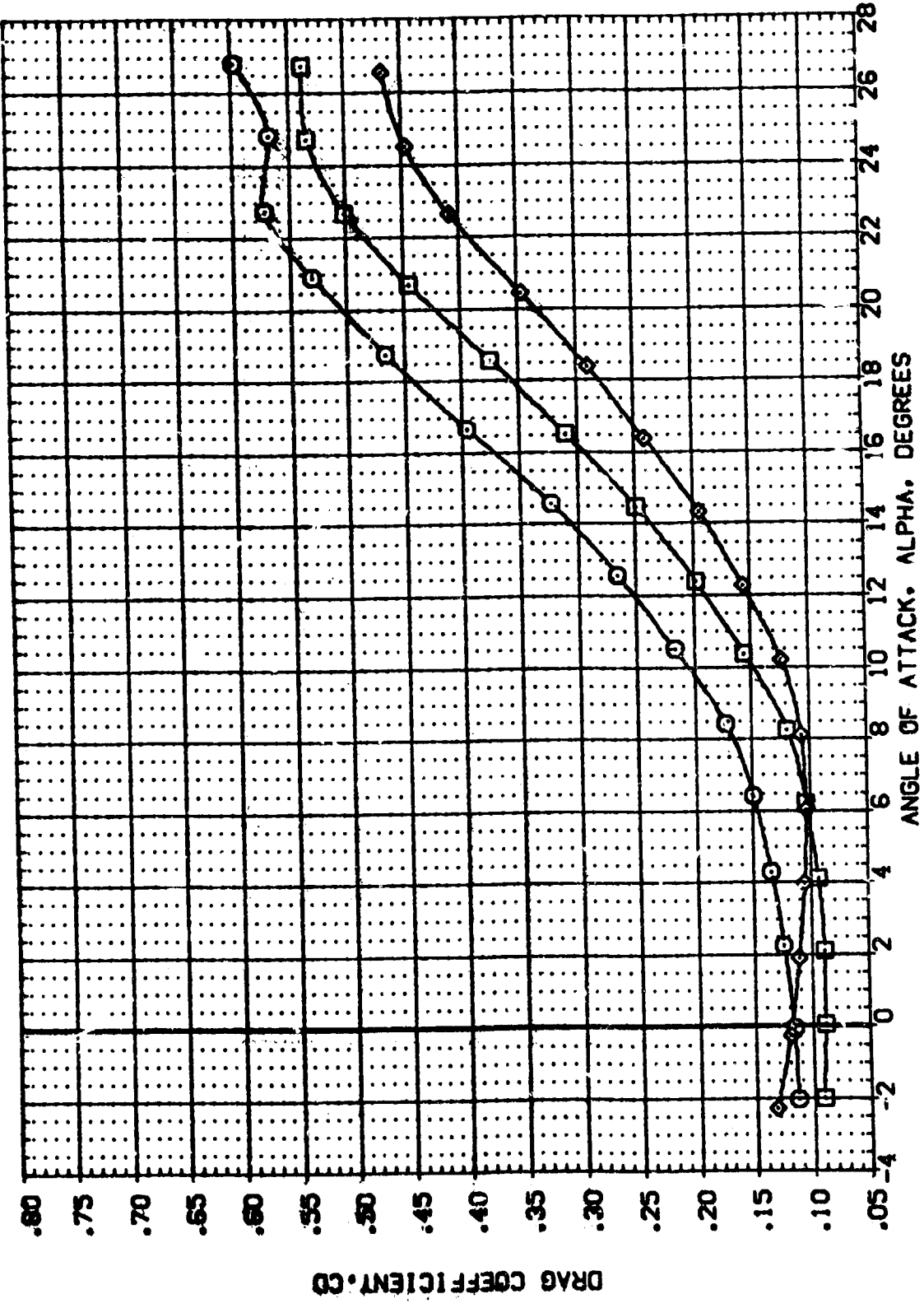


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPORAK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 65-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	SREF 2630.0000 SQ.FT.
(RBT004)	AVES 65-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	LREF 474.8000 IN.
(RBT022)	AVES 65-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(RBT006)	AVES 65-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF .0150 SCALE

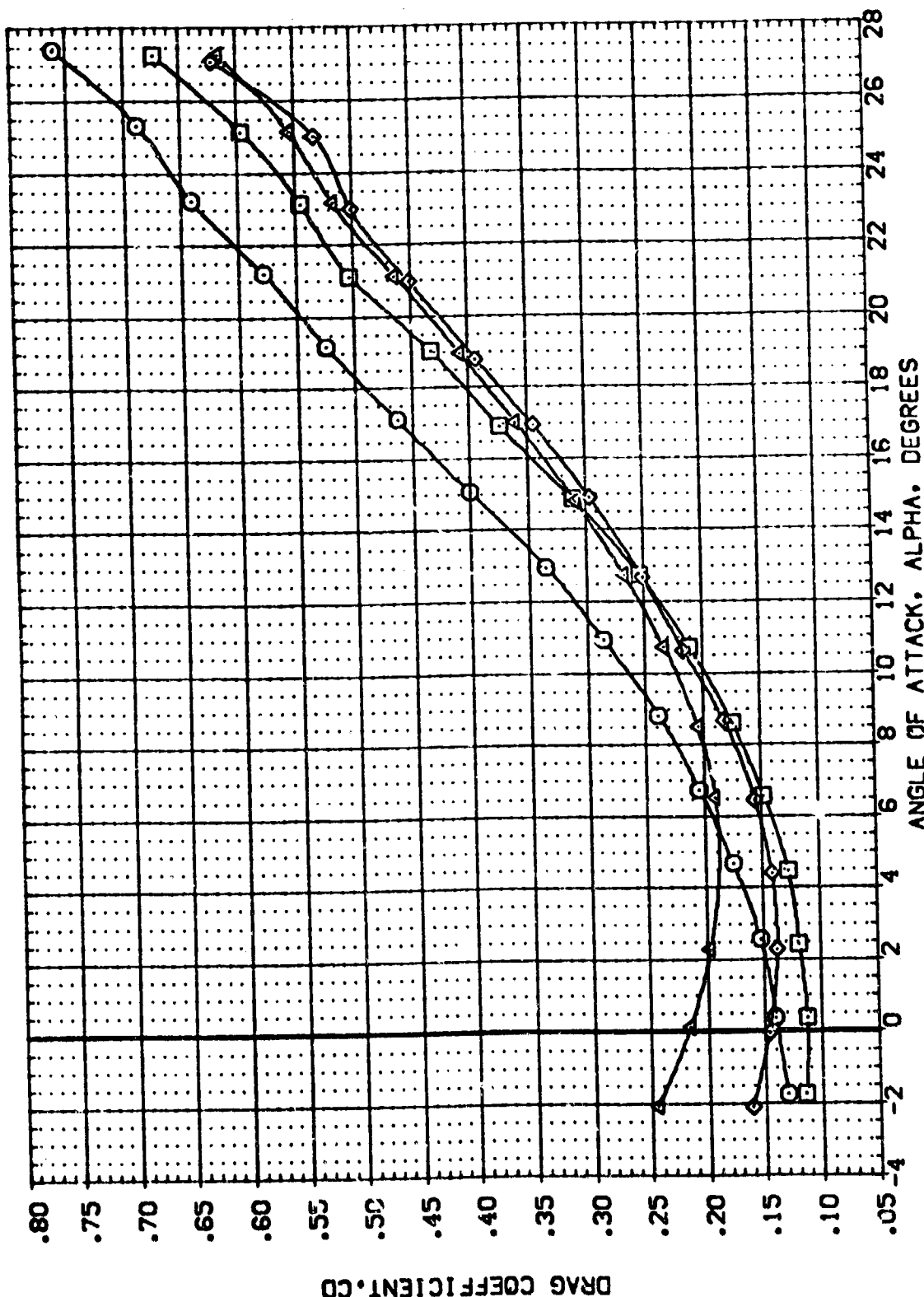


FIG. 7 ELEVONS DEFLECTED
(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SFOBRK	RUDDER	REFERENCE INFORMATION
[RST003]	○	AVES 66-706 DA43 B10 CS D7 M3 FA V87E18 V5RS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[RST004]	○	AVES 66-706 DA43 B10 CS D7 M3 FA V87E18 V5RS	-14.200	10.000	54.900	.000	LREF 171.8000 IN.
[RST022]	○	AVES 66-706 DA43 B10 CS D7 M3 FA V87E18 V5RS	-14.200	-20.000	54.900	.000	XREF 936.6800 IN.
[RST025]	○	AVES 66-706 DA43 B10 CS D7 M3 FA V87E18 V5RS	-14.200	-40.000	54.900	.000	YREF 1076.1800 IN.
							ZREF .0000 IN.
							SCALE 400.0000 IN.
							SCALE .0150 IN.

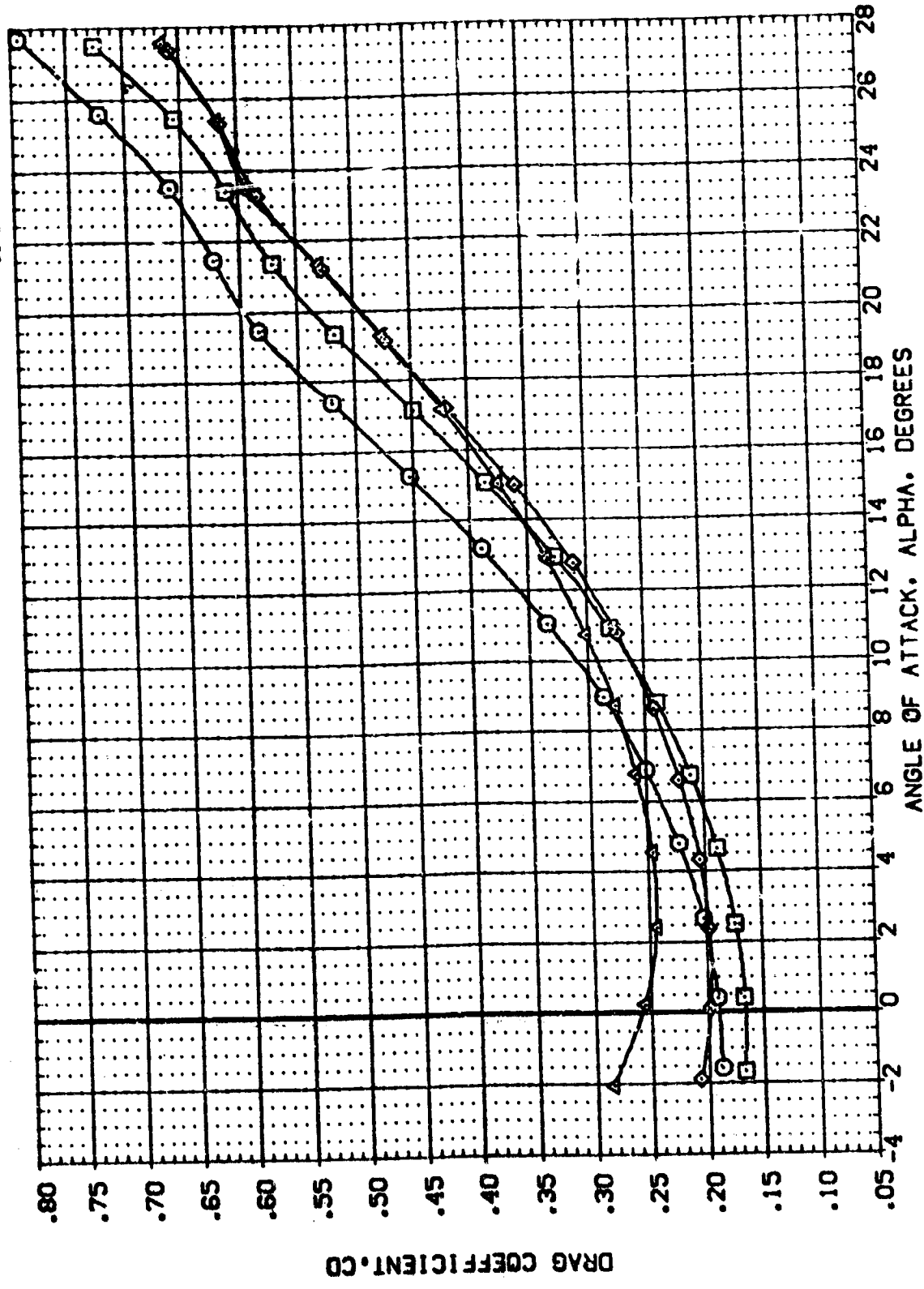


FIG. 7 ELEVONS DEFLECTED

(CJMACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	○	AVES 65-705 DA13 B10 CS D7 MG F4 V87E18 VSR5	-14.200	10.000	54.500	.000	SREF 2630.0000 SQ.FT.
(RBT004)	○	AVES 65-705 DA13 B10 CS D7 MG F4 V87E18 VSR5	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(RBT022)	○	AVES 65-705 DA13 B10 CS D7 MG F4 V87E18 VSR5	-14.200	-20.000	54.500	.000	BREF 936.6600 IN.
(RBT006)	○	AVES 65-705 DA13 B10 CS D7 MG F4 V87E18 VSR5	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
							YREF .0000 IN.
							ZREF 100.0000 IN.
							SCALE .0150 SCALE

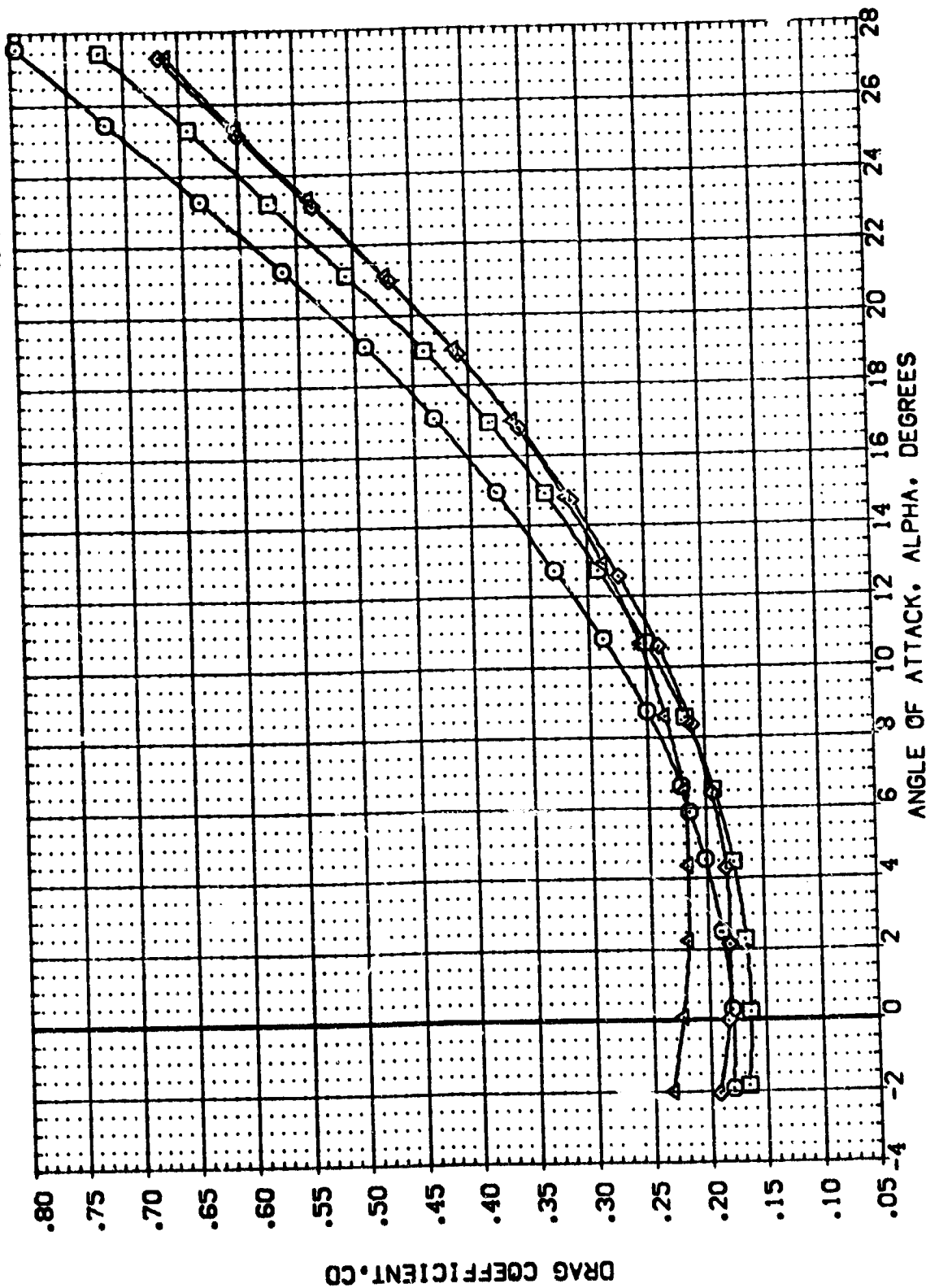


FIG. 7 ELEVONS DEFLECTED

(CD)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ROOF L/P	ELEVON	SPOILER	RUDER	REFERENCE INFORMATION
[RBT005]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[RBT004]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	0.000	54.900	.000	LREF 474.8000 IN.
[RBT022]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
[RBT006]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

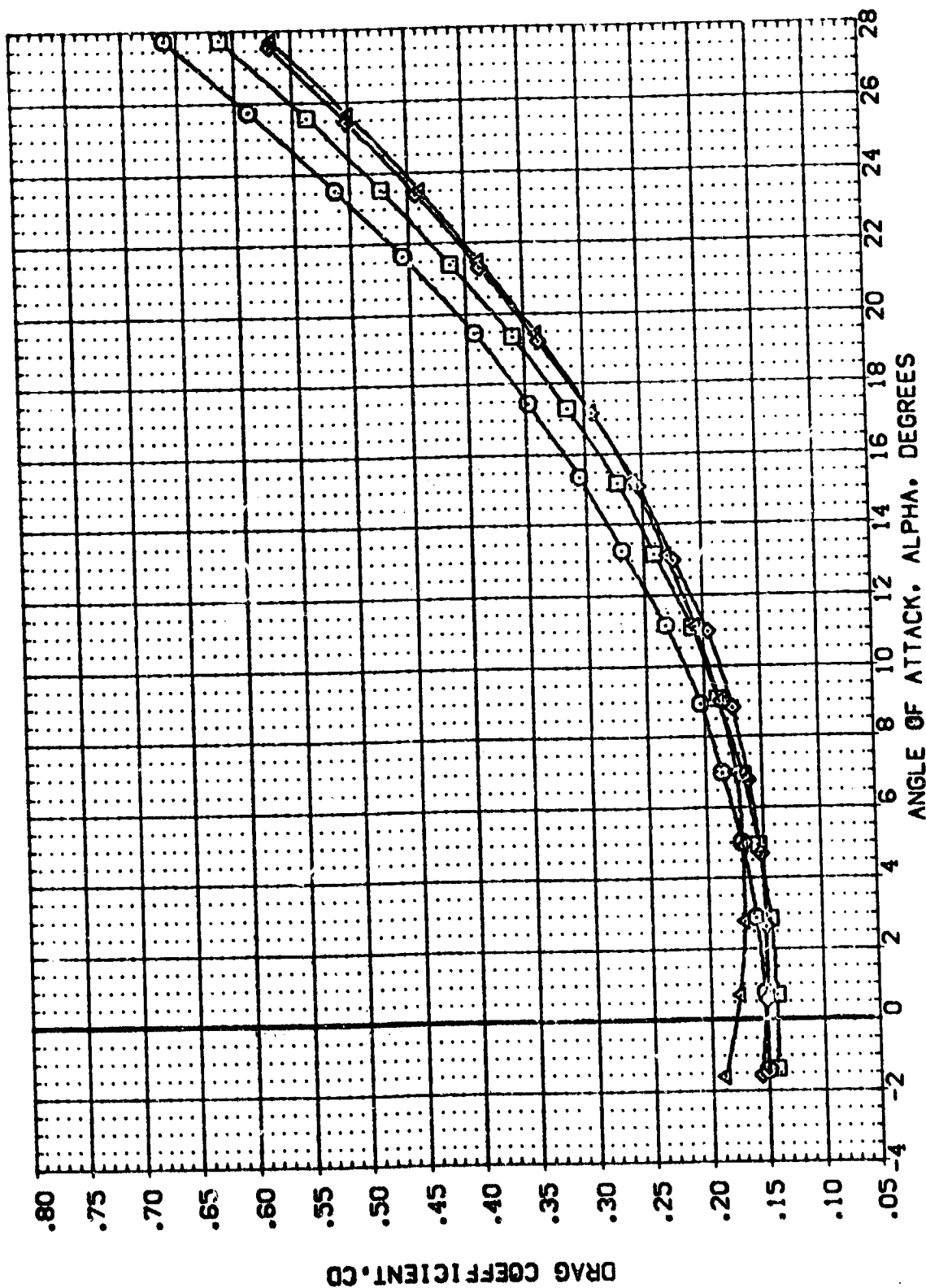


FIG. 7 ELEVONS DEFLECTED

(ELEVON = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOGFLP	ELEVON	SPORX	ALODR	REFERENCE INFORMATION
(RST005)	AVES 66-708 0A13 B10 CS D7 M3 F4 V67E18 V5R5	-14.200	10.000	54.500	.000	SREF 2630.0000 SQ.FT.
(RST004)	AVES 66-708 0A13 B10 CS D7 M3 F4 V67E18 V5R5	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(RST022)	AVES 66-708 0A13 B10 CS D7 M3 F4 V67E18 V5R5	-14.200	-20.000	54.500	.000	BREF 536.6000 IN.
(RST005)	DATA NOT AVAILABLE	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

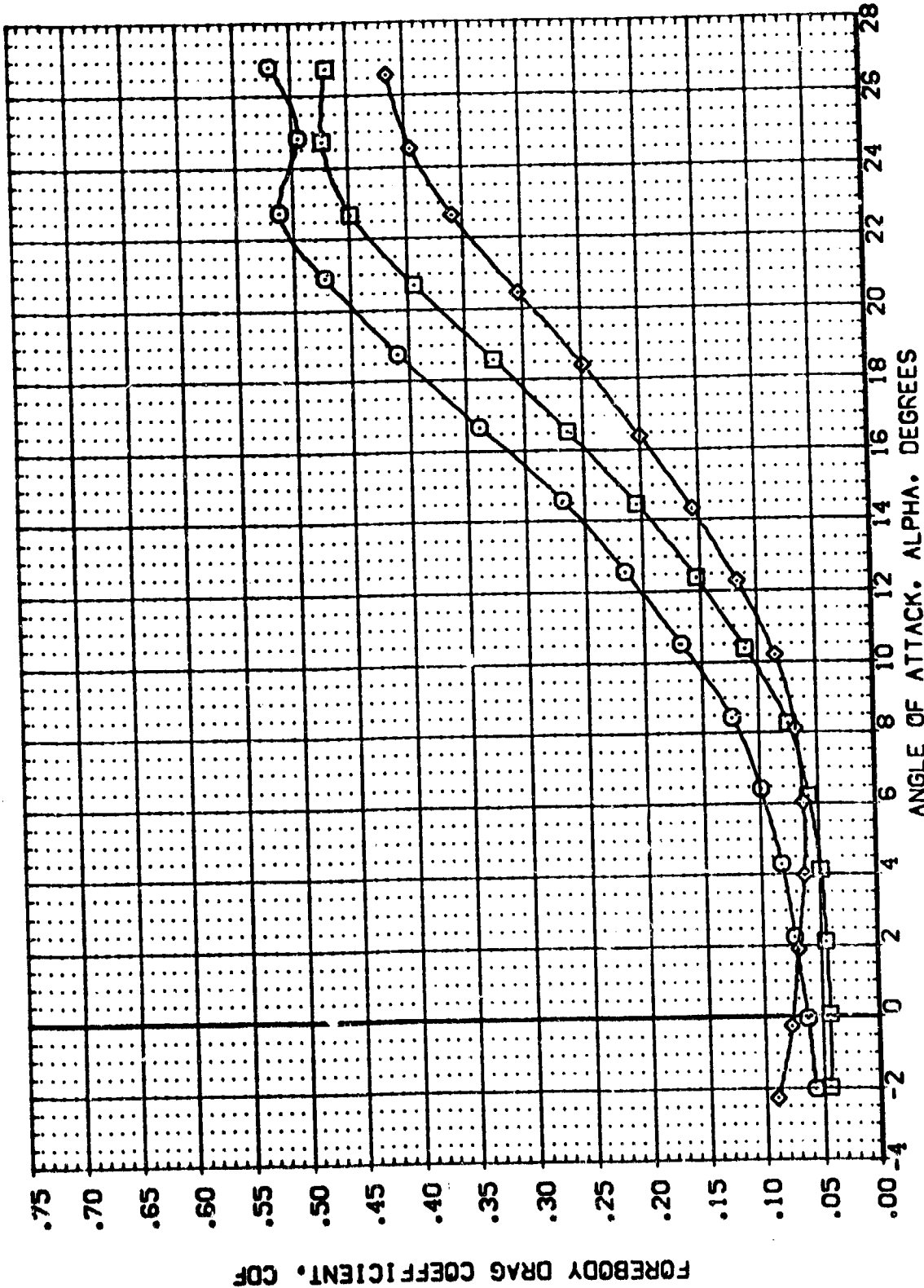


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL: (RBT005) (RBT004) (RBT022) (RBT026)

CONFIGURATION DESCRIPTION: AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS

BODFLP: -14.200 -14.200 -14.200 -14.200

ELEVON: 10.000 10.000 10.000 -20.000 -40.000

SPOBRK: 54.900 54.900 54.900 54.900

RUDDER: .000 .000 .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XPRP 1076.4800 IN. YPRP 400.0000 IN. ZPRP .0150 SCALE

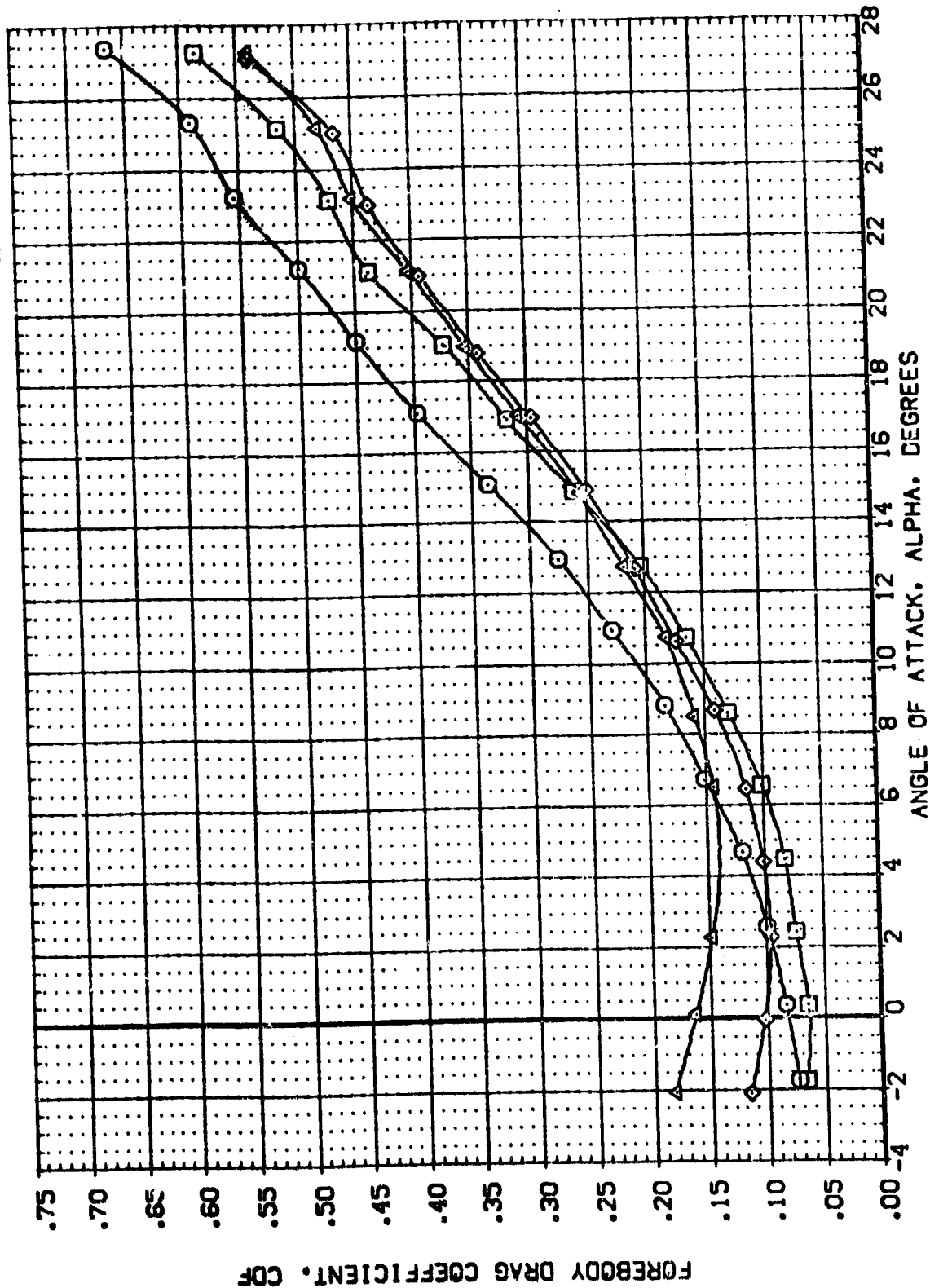


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPORBK	RUDDER	REFERENCE INFORMATION
(RBT005)	○	AVES 66-706 0M43 810 CS D7 M3 F4 V87E18 VS95	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	○	AVES 66-706 0M43 810 CS D7 M3 F4 V87E18 VS95	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	○	AVES 66-706 0M43 810 CS D7 M3 F4 V87E18 VS95	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	○	AVES 66-706 0M43 810 CS D7 M3 F4 V87E18 VS95	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
							YREF .0000 IN.
							ZREF 400.0000 IN.
							SCALE .0150

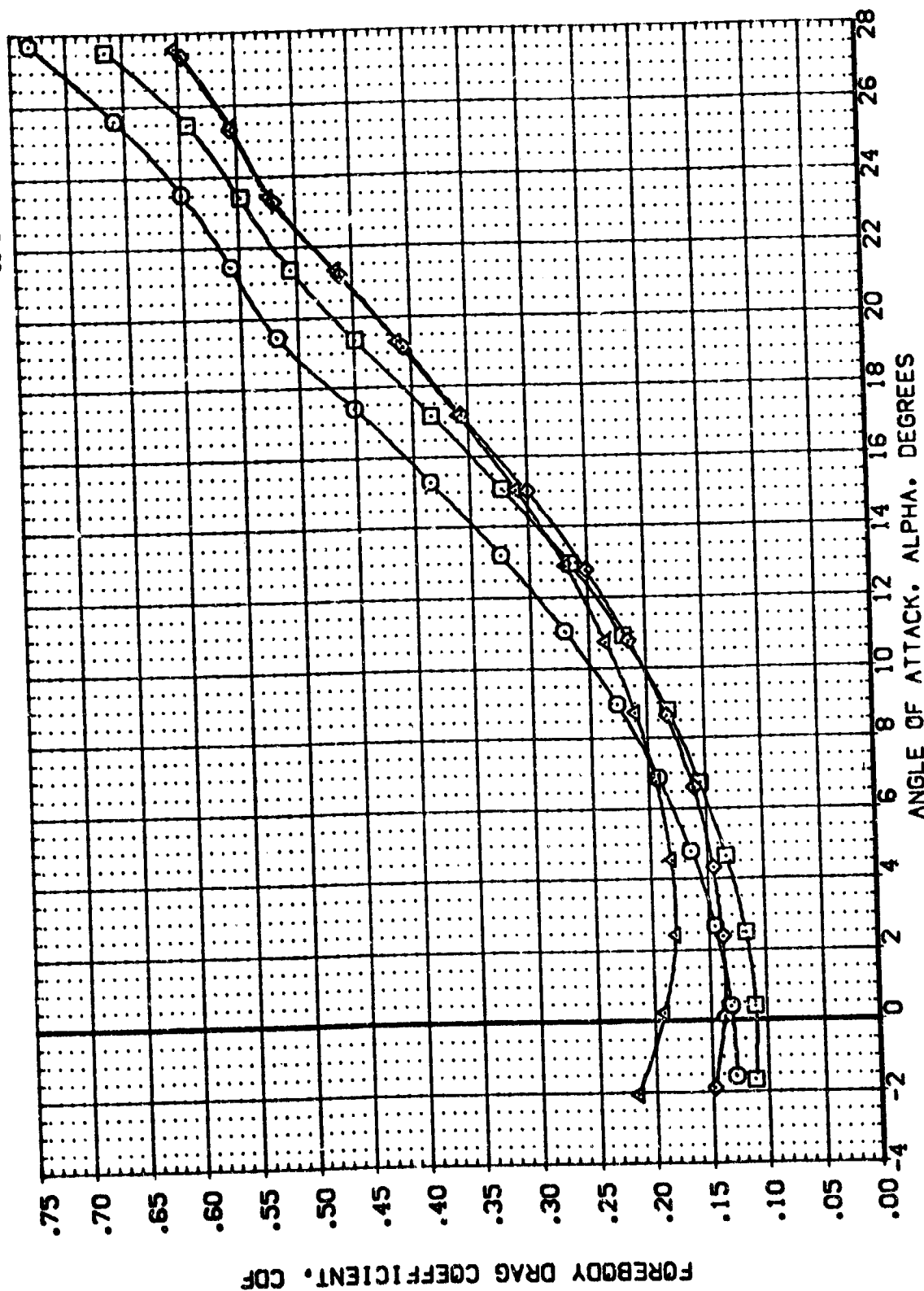


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMB. CO. CONFIGURATION DESCRIPTION

[RST005] AVES 66-706 0A43 B10 CS 07 M3 F4 V87E18 VSRS

[RST004] AVES 66-706 0A43 B10 CS 07 M3 F4 V87E18 VSRS

[RST022] AVES 66-706 1A43 B10 CS 07 M3 F4 V87E18 VSRS

[RST006] AVES 66-706 1A43 B10 CS 07 M3 F4 V87E18 VSRS

BODTLP ELEVON SPOBRK RUDDER

-14.200 10.000 54.900 .000

-14.200 10.000 54.900 .000

-14.200 10.000 54.900 .000

-14.200 10.000 54.900 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 N.

BREF 936.6800 N.

XMRP 1076.4800 N.

YMRP 400.0000 N.

ZMRP 400.0000 N.

SCALE .0150

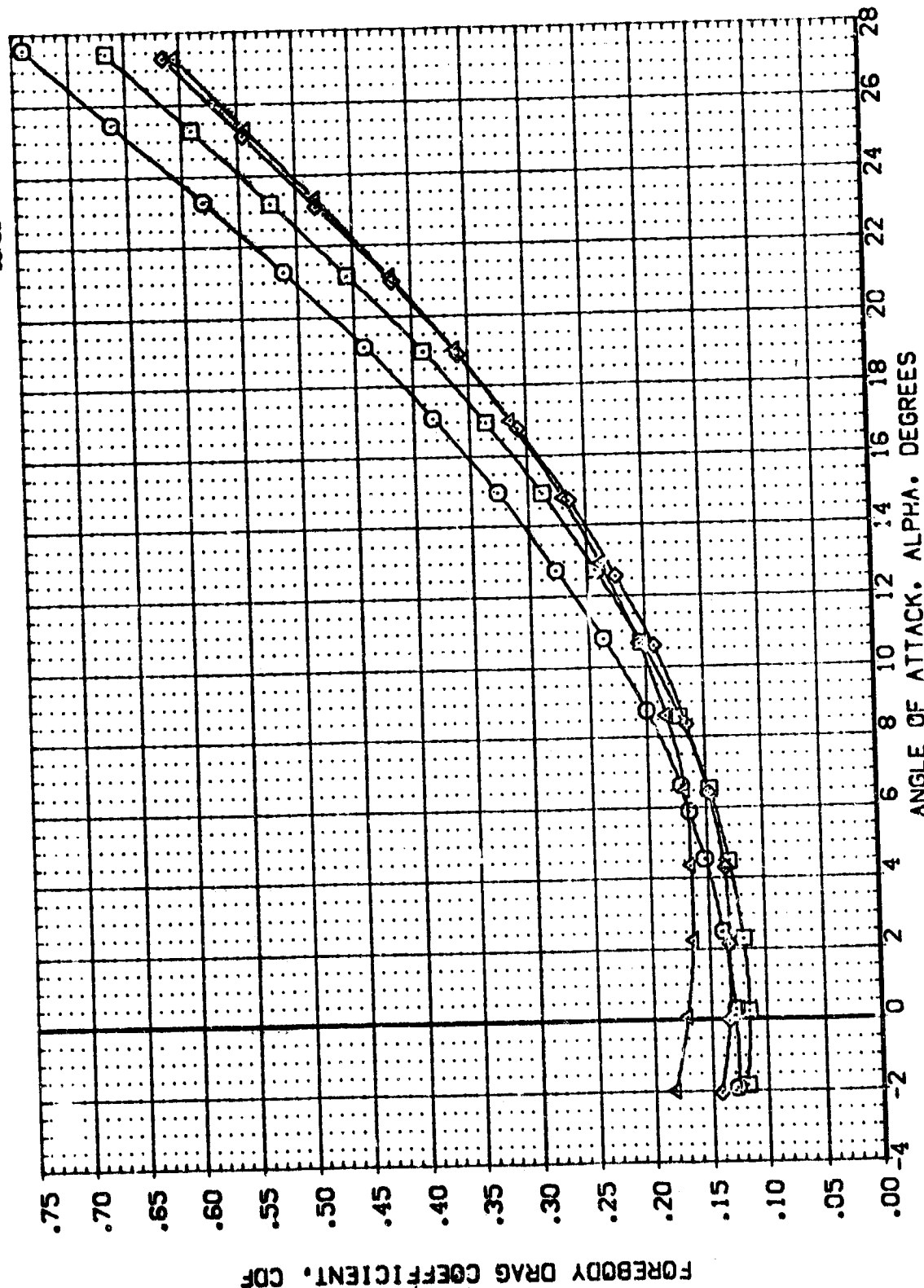


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPURK	RUDER	REFERENCE INFORMATION
(RBT005)	AVES 66-705 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 50.FT.
(RBT004)	AVES 66-705 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	0.000	54.900	.000	LREF 474.6000 IN.
(RBT022)	AVES 66-705 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	SREF 936.6800 IN.
(RBT006)	AVES 66-705 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

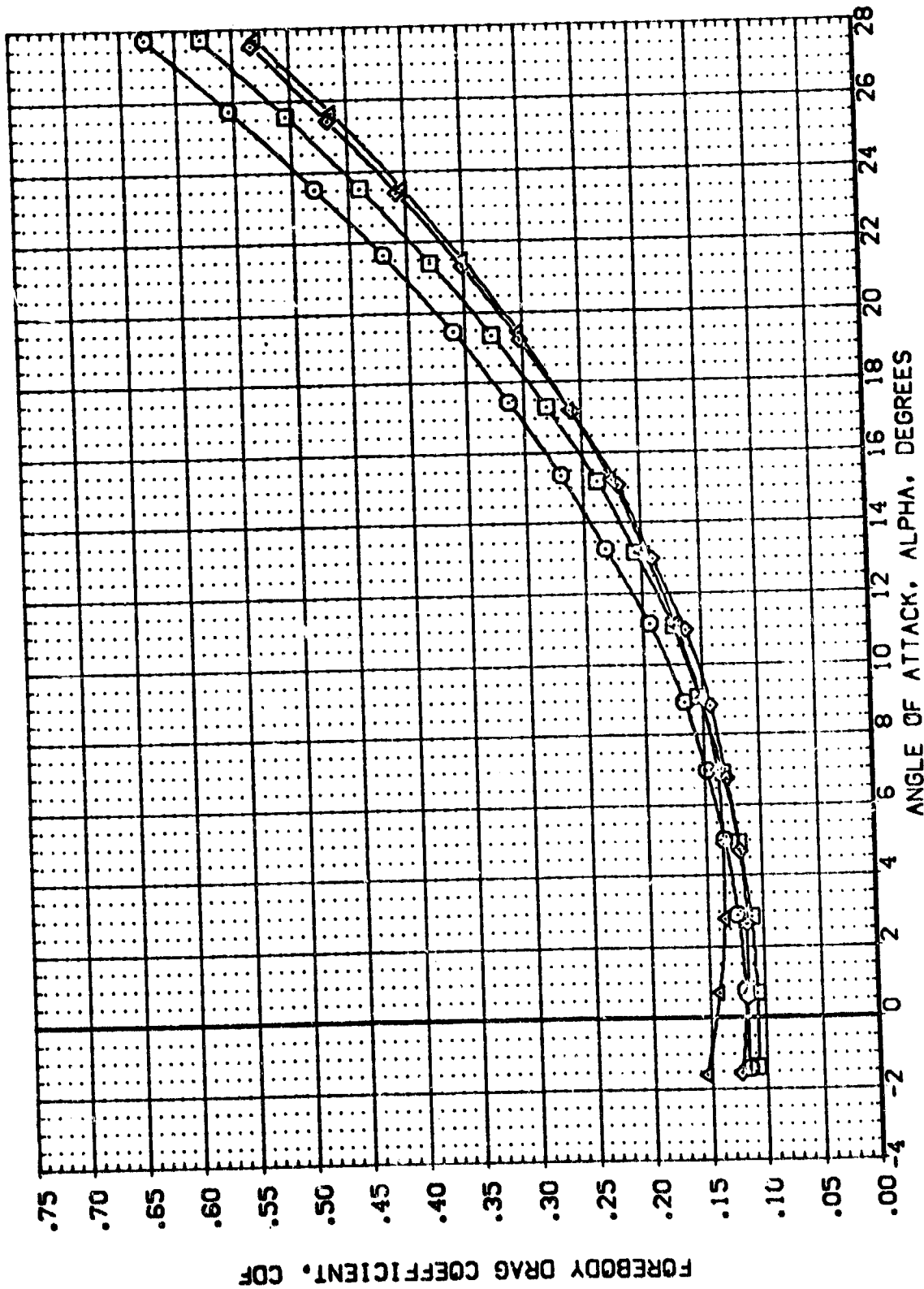



FIG. 7 ELEVONS DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS; AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS; AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS; DATA NOT AVAILABLE

BOOF LP ELEVON SPDRBY RUDDER REFERENCE INFORMATION SQ.FT.
 -14.200 10.000 54.900 .000 SREF 2690.0000 IN.
 -14.200 10.000 54.900 .000 LREF 474.8000 IN.
 -14.200 10.000 54.900 .000 BRFL 936.6800 IN.
 -14.200 10.000 54.900 .000 XMRP 1076.4800 IN.
 -14.200 10.000 54.900 .000 YMRP 400.0000 IN.
 SCALE .0150

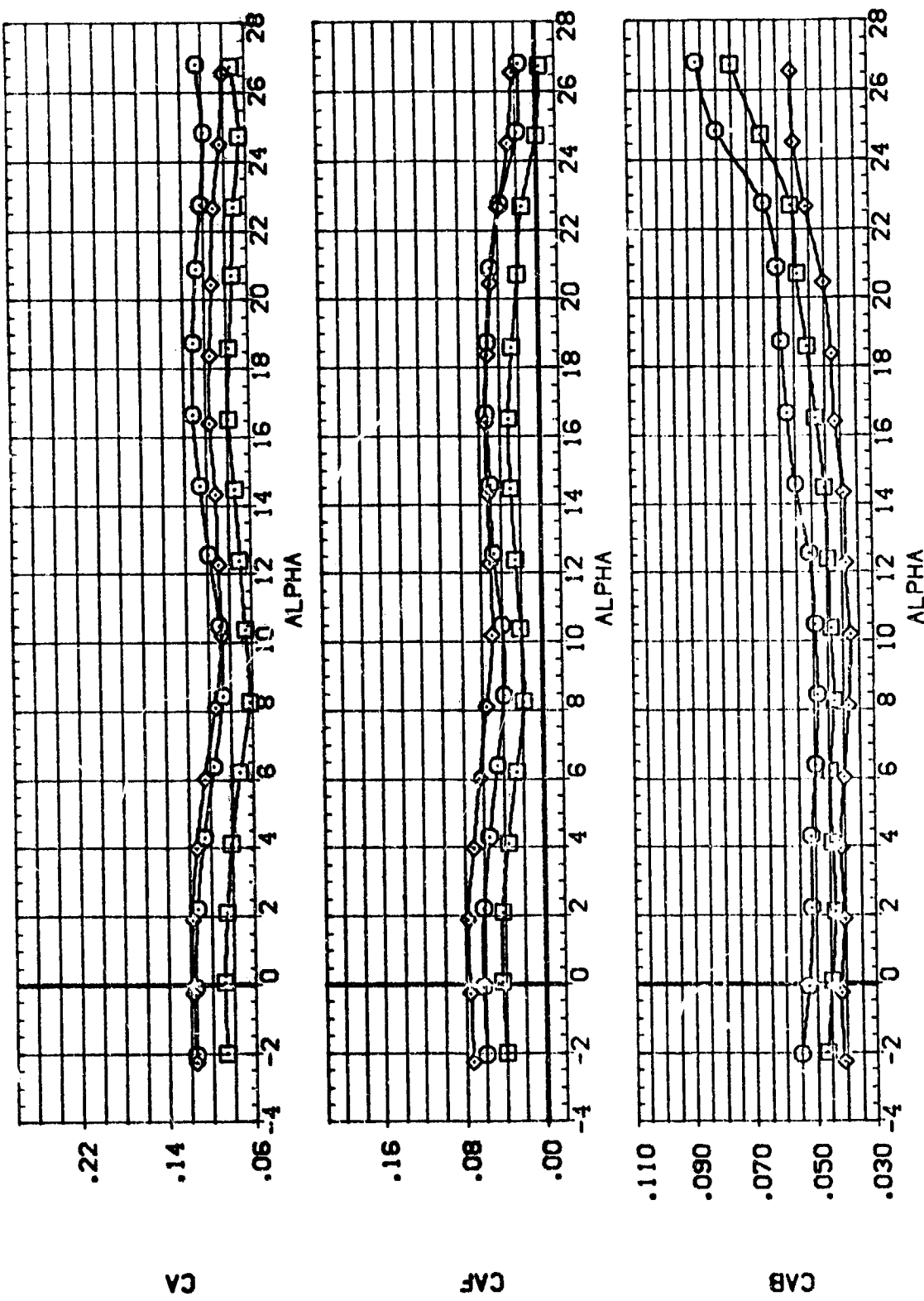
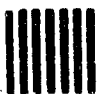


FIG. 7 ELEVONS DEFLECTED
 (MACH = .60)



DATA SET SYMBOL: (RBT005) (RBT004) (RBT022) (RBT006)

CONFIGURATION DESCRIPTION: AYES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS; AYES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS; AYES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS; AYES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFLP: -14.200, -14.200, -14.200, -14.200

ELEVON: 10.000, 10.000, 10.000, 10.000

SPOBRK: 54.500, 54.500, 54.500, 54.500

RUDER: .000, .000, .000, .000

REFERENCE INFORMATION: SREF 2650.0000 SQ.FT.; LREF 474.8000 IN.; BREF 936.6800 IN.; YPRP 1076.4800 IN.; ZPRP 400.0000 IN.; SCALE .0150

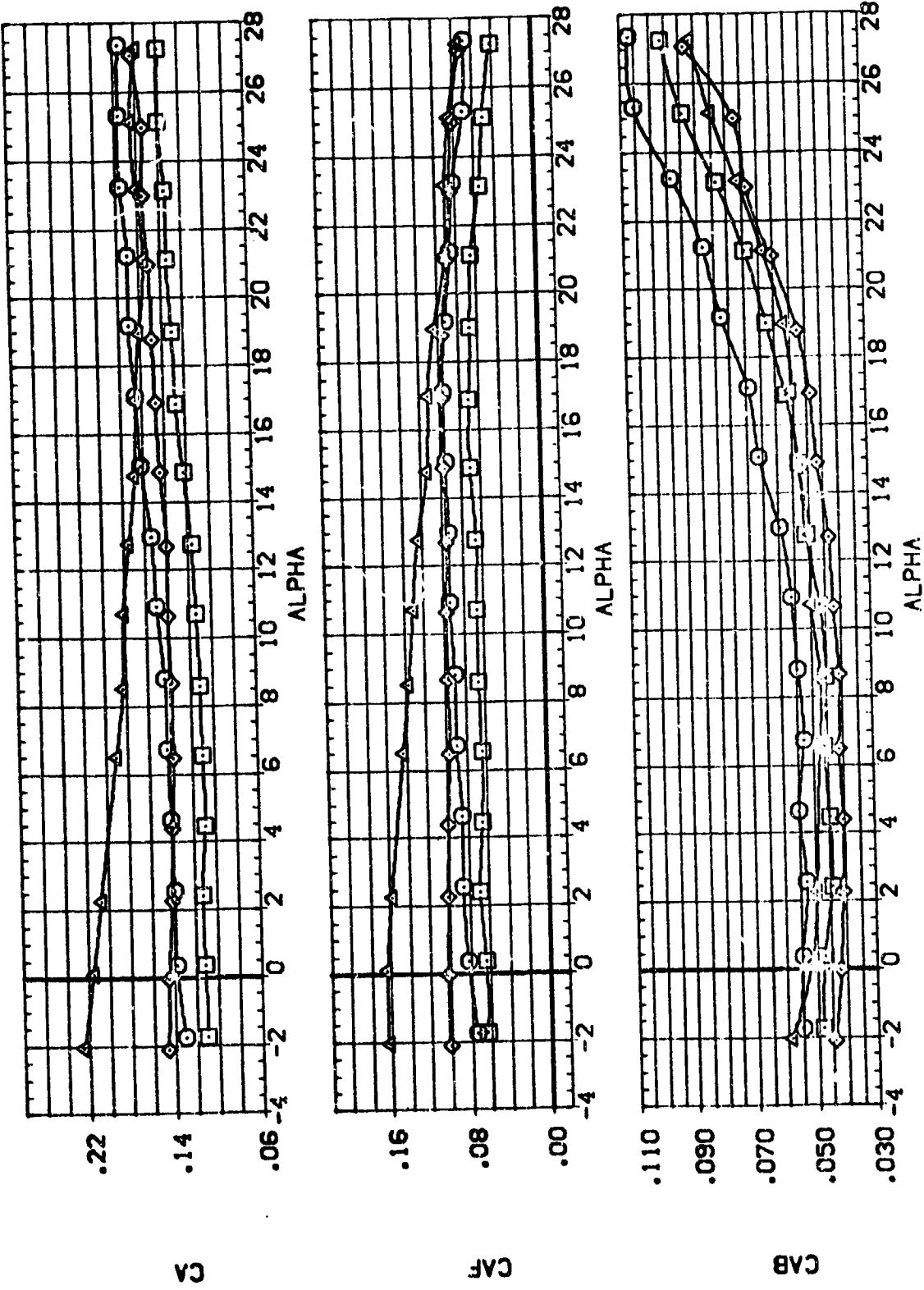


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF L/P	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
[R8T005]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[R8T004]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E16 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
[R8T022]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 336.6800 IN.
[R8T006]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

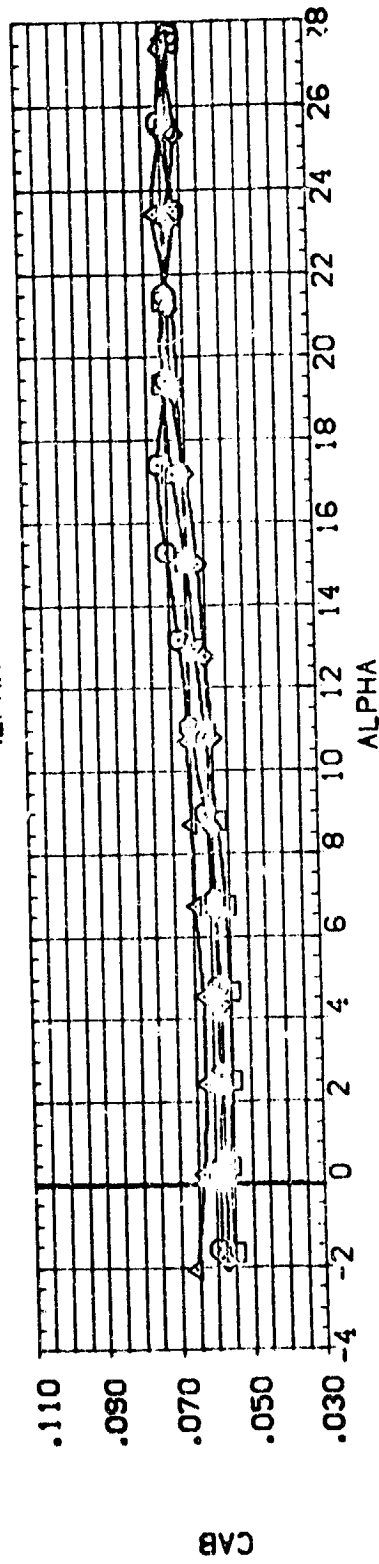
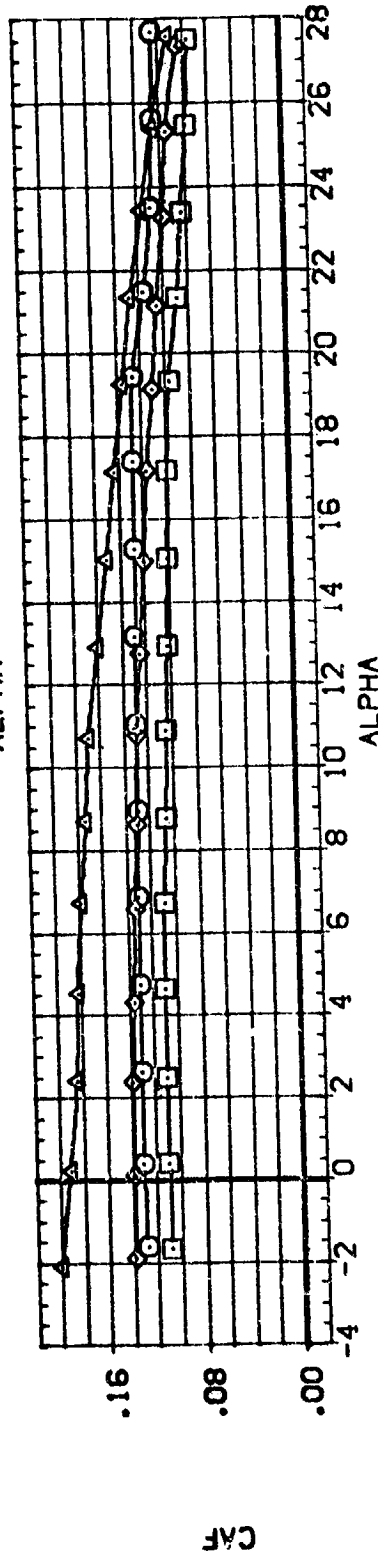
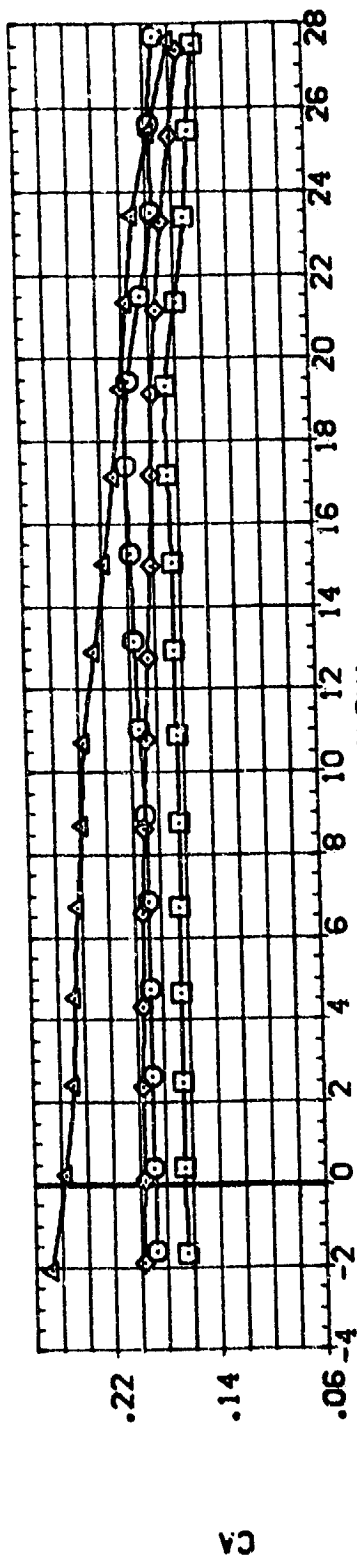


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	SREF 2650.0000 SQ.FT. IN.
(RBT004)	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(RBT022)	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(RBT006)	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	XMRP 1076.4800 IN.
						YMRP 100.0000 IN.
						ZMRP .0150 SCALE

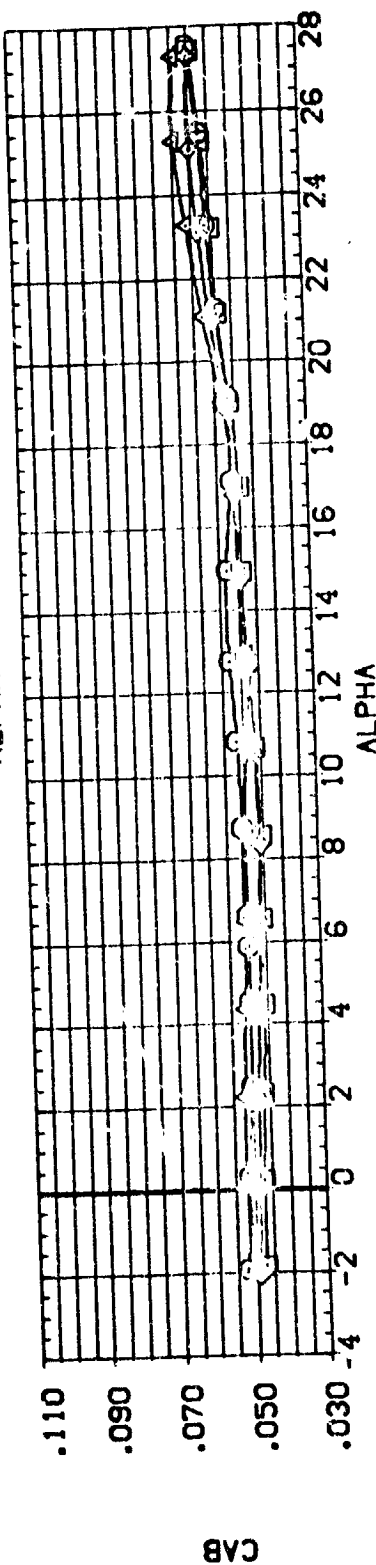
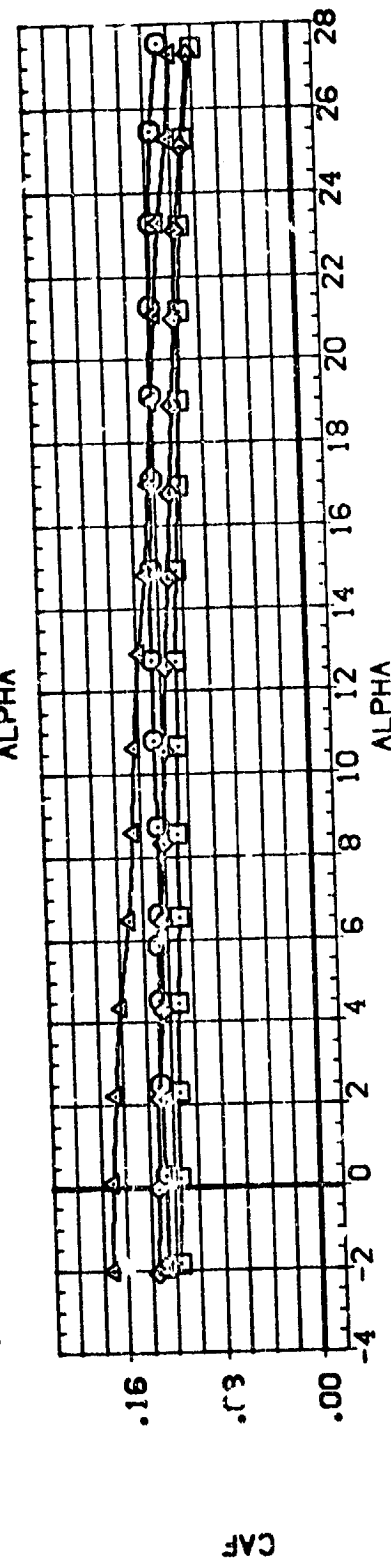
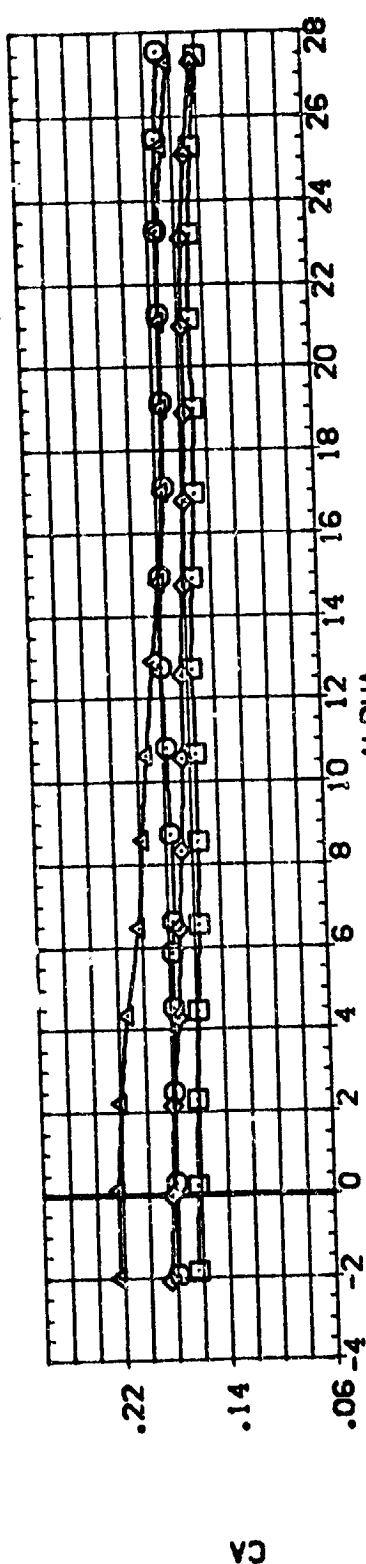


FIG. 7 ELEVONS DEFLECTED

(O)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOT LIP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 CA43 B10 CS U1 M3 F4 V87E18 V59S	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 CA43 B10 CS U1 M3 F4 V87E18 V59S	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	AVES 66-706 CA43 B10 CS U1 M3 F4 V87E18 V59S	-14.200	20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	AVES 66-706 CA43 B10 CS U1 M3 F4 V87E18 V59S	-14.200	-40.000	54.900	.000	XREF 1076.1800 IN.
						YREF 3000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

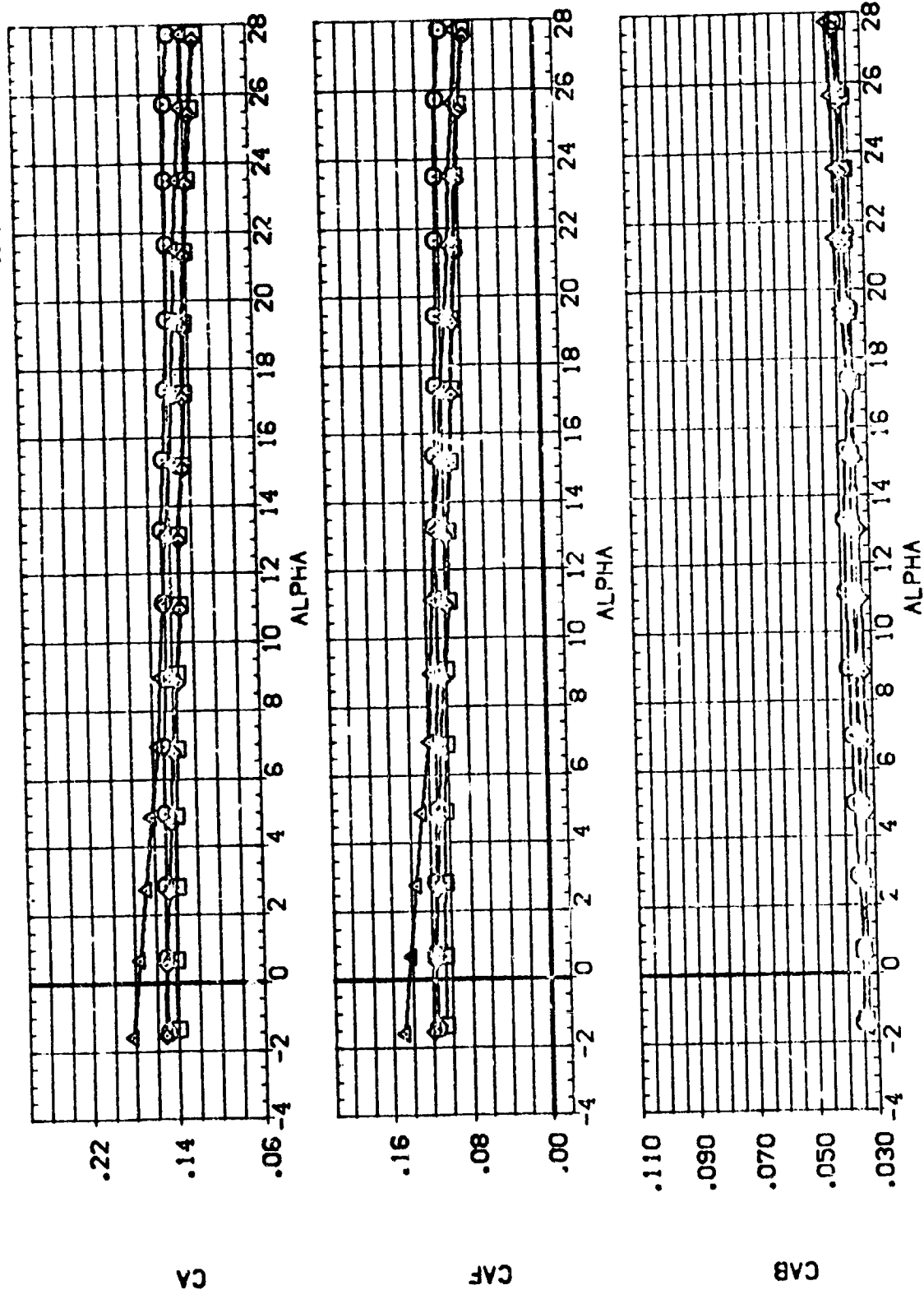


FIG. 7 ELEVONS DEFLECTED

(MACH = 2.00)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LIP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R8T005)	AVES 68-706 0A13 B10 CS D7 M3 F4 V87E18 V59G	-14.200	10.000	54.900	.000	SREF 2679.0000 90.FT.
(R8T004)	AVES 68-706 0A13 B10 CS D7 M3 F4 V87E18 V59G	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(R8T022)	AVES 68-706 0A13 B10 CS D7 M3 F4 V87E18 V59G	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(R8T006)	DATA NOT AVAILABLE	-14.200	-40.000	54.900	.000	XTRIP 1076.4800 IN.
						ZTRIP 400.0000 IN.
						SCALE .0150

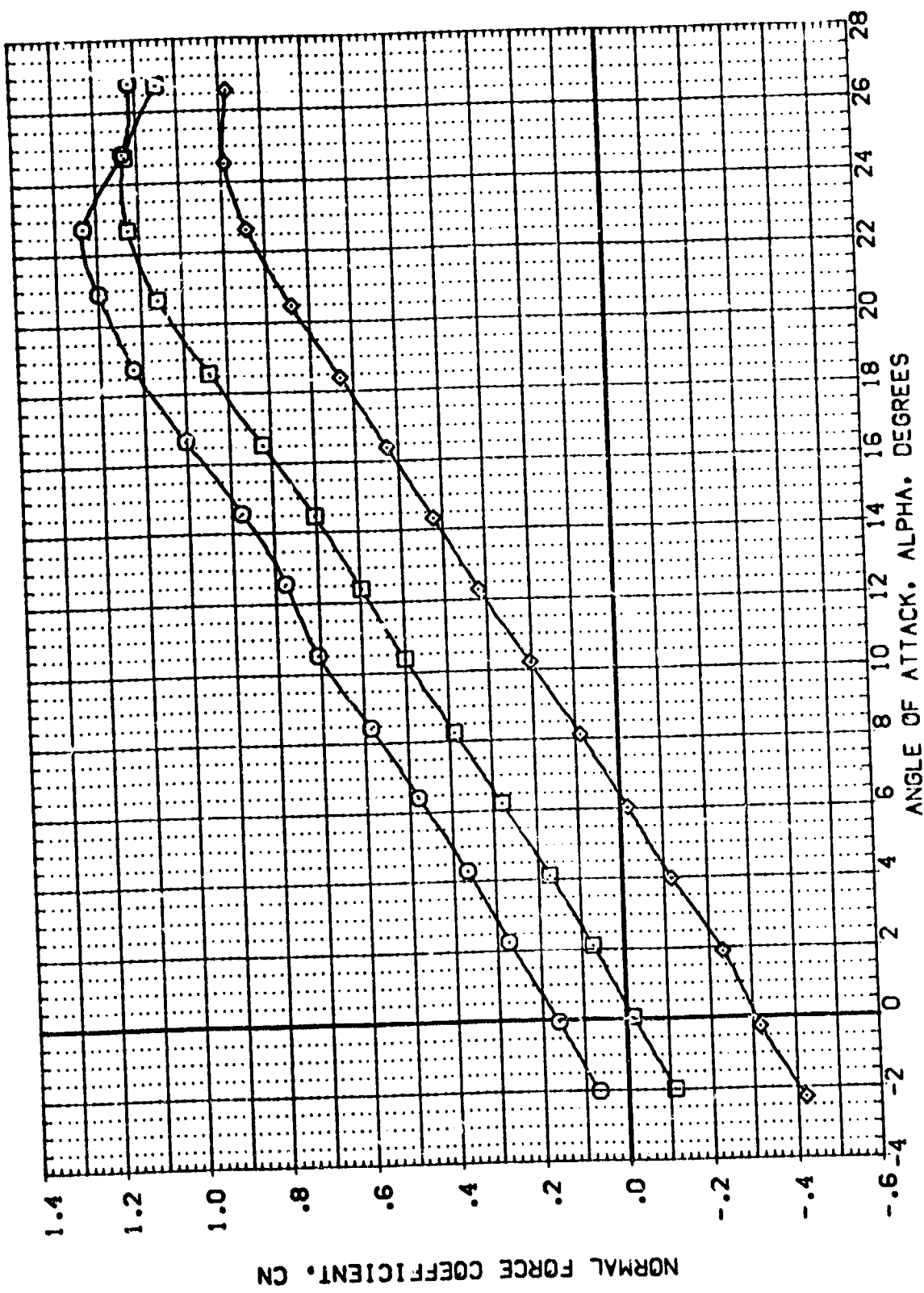


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LIP	ELEVON	S-TOBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 N.
(RBT022)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.8800 N.
(RBT006)	AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	YMRP 1076.4800 N.
						ZMRP .0000 N.
						SCALE 400.0000 N.
						SCALE .0150

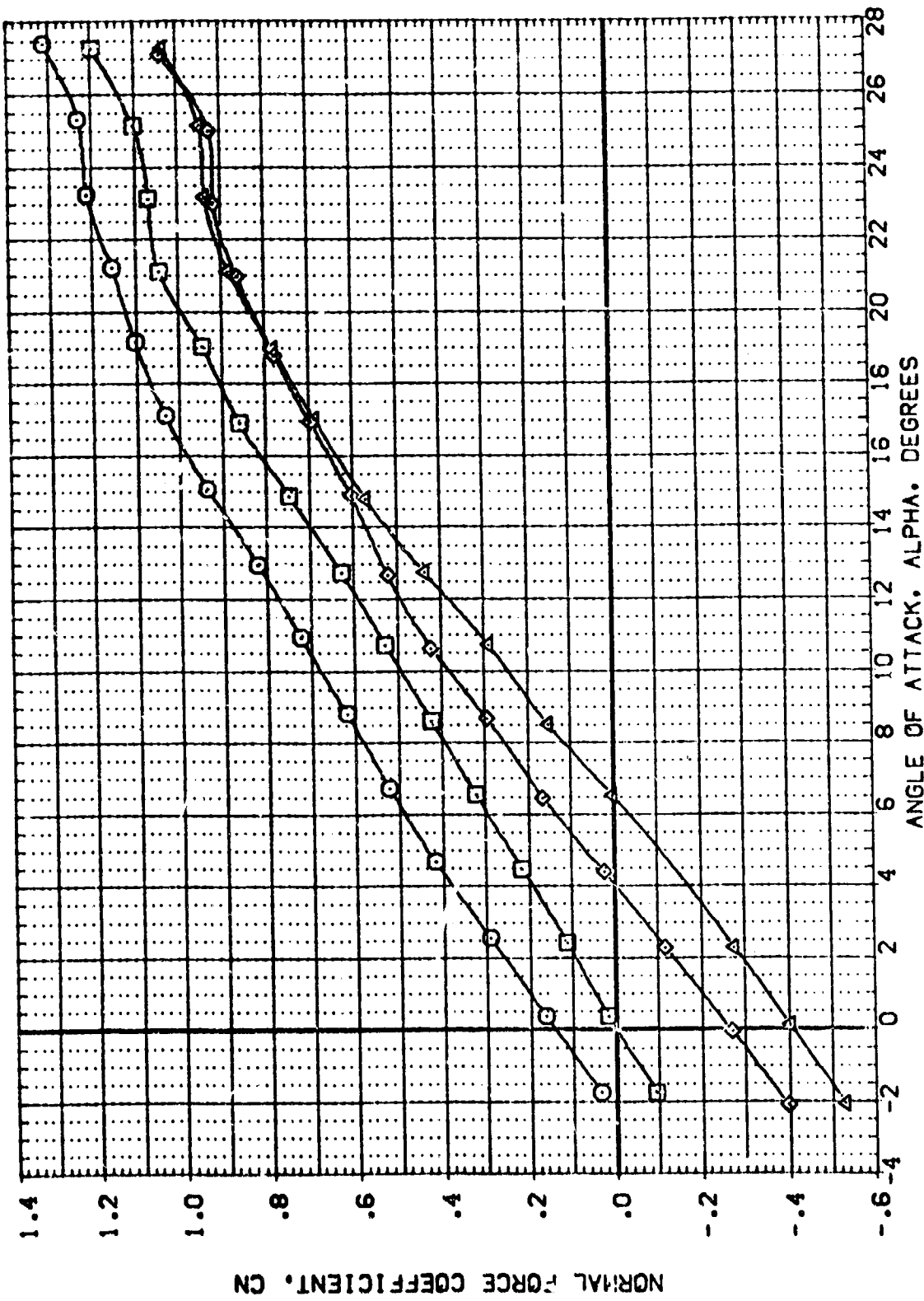


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90



DATA SET SYMBL.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	10.000	54.900	.000	SREF 2690.0000 50.FT.
(RBT004)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-40.000	54.900	.000	XTRP 1076.4800 IN.
						YTRP 100.0000 IN.
						ZTRP 100.0000 IN.
						SCALE .0150

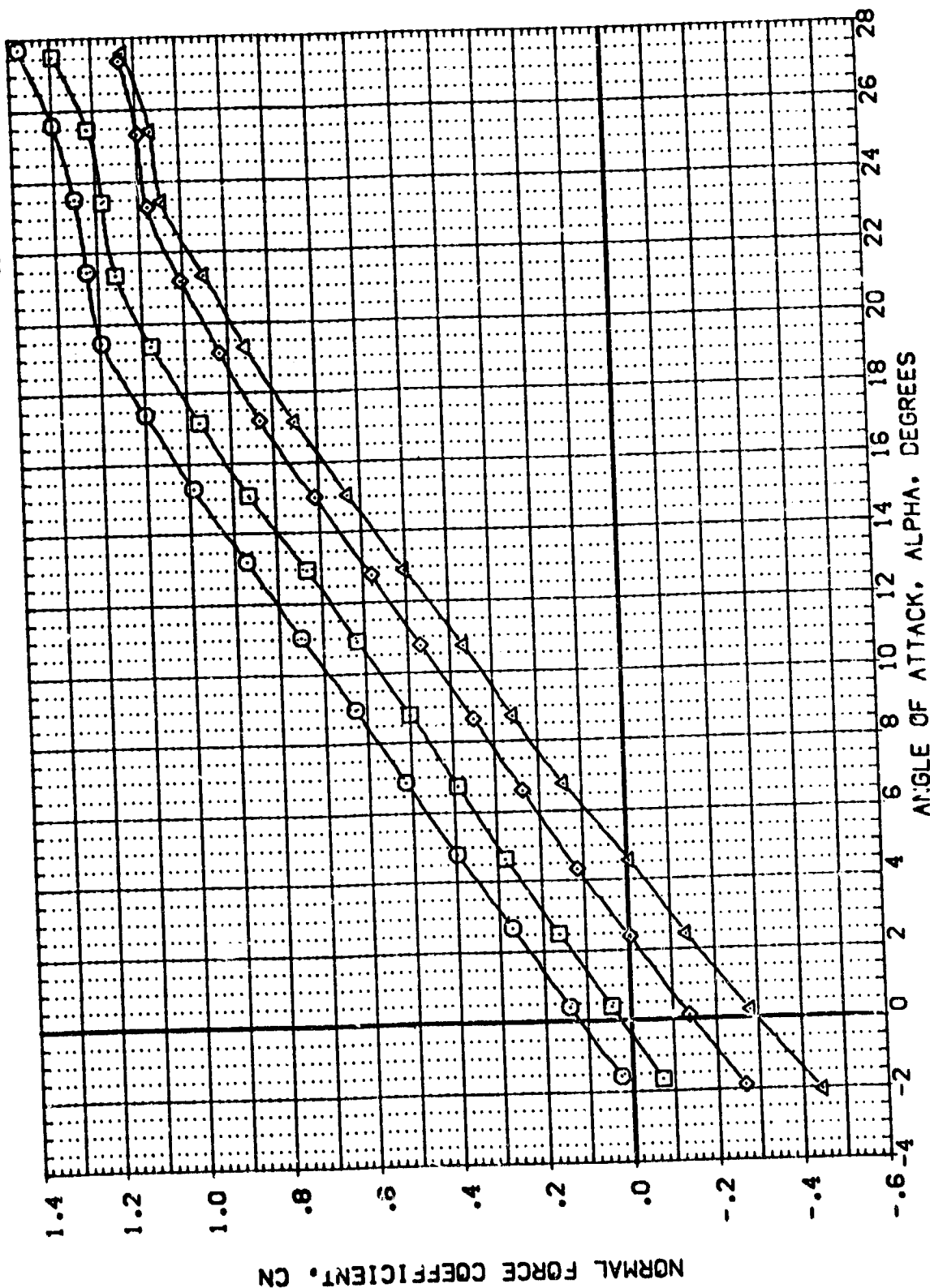


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDRX	RUDER	REFERENCE INFORMATION
(RST005)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RST004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	0.000	54.900	.000	LREF 474.8000 IN.
(RST022)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RST006)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XMPP 1076.4800 IN.
						ZMPP 400.0000 IN.
						SCALE .0150

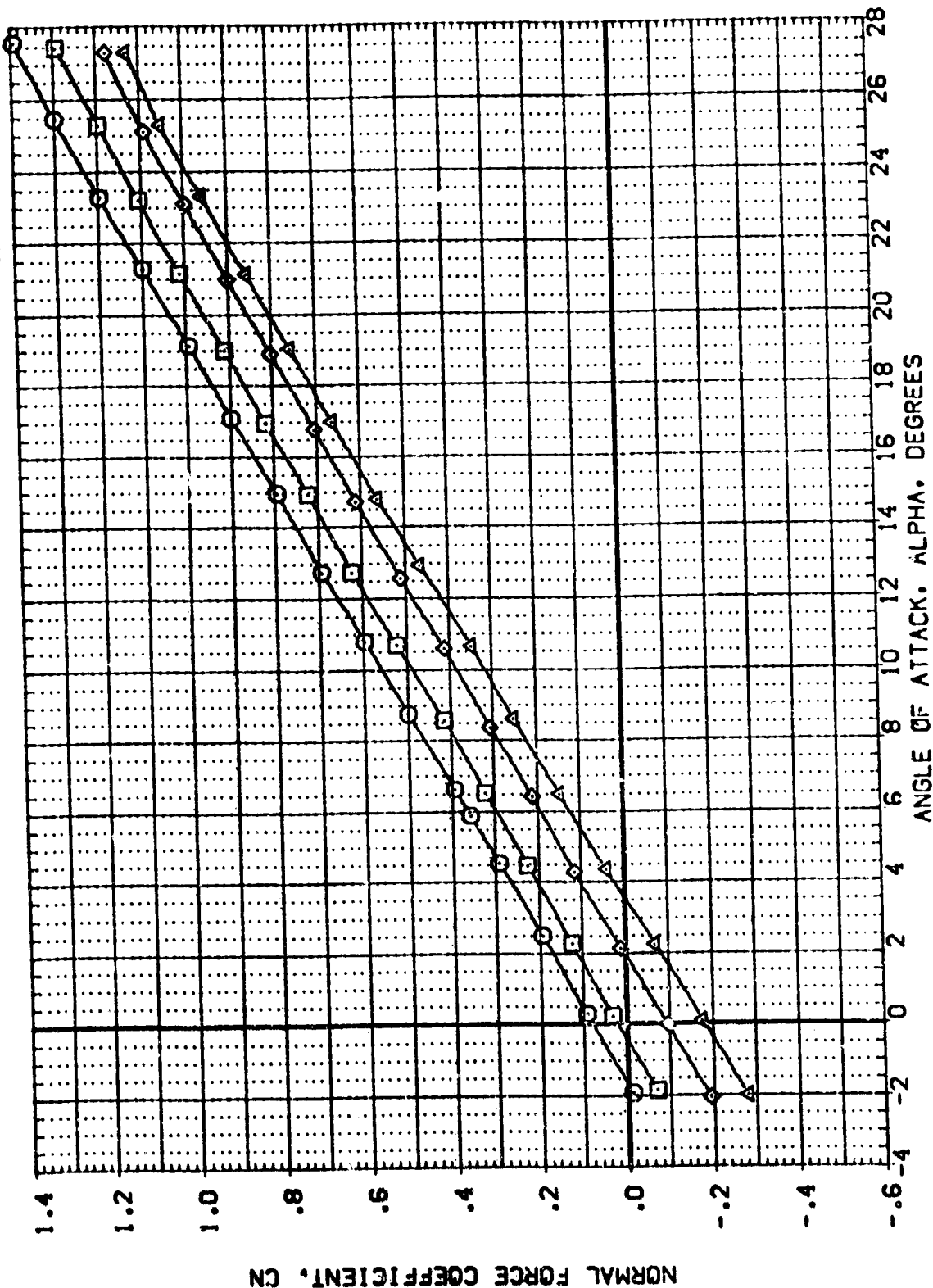


FIG. 7 ELEVONS DEFLECTED

(M)MACH = 1.50

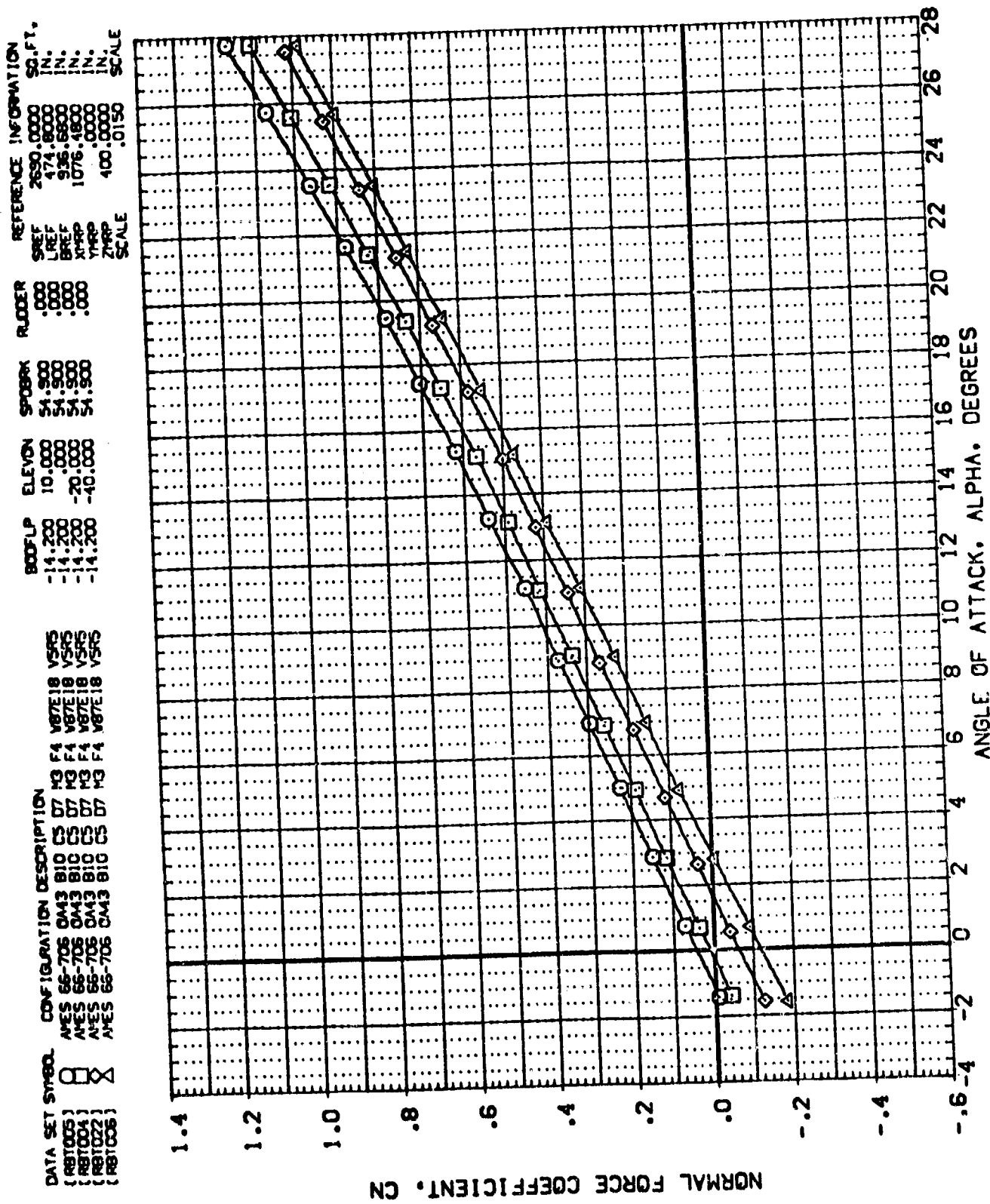


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 2.00

DATA SET SYMB.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 0413 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000
(RBT004)	AVES 66-706 0413 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	LREF 474.8000
(RBT003)	AVES 66-706 0413 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800
(RBT006)	AVES 66-706 0413 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	YMRP 1076.4800
	DATA NOT AVAILABLE					ZMRP .0000
						SCALE 400.0000
						SCALE .0150
						SCALE

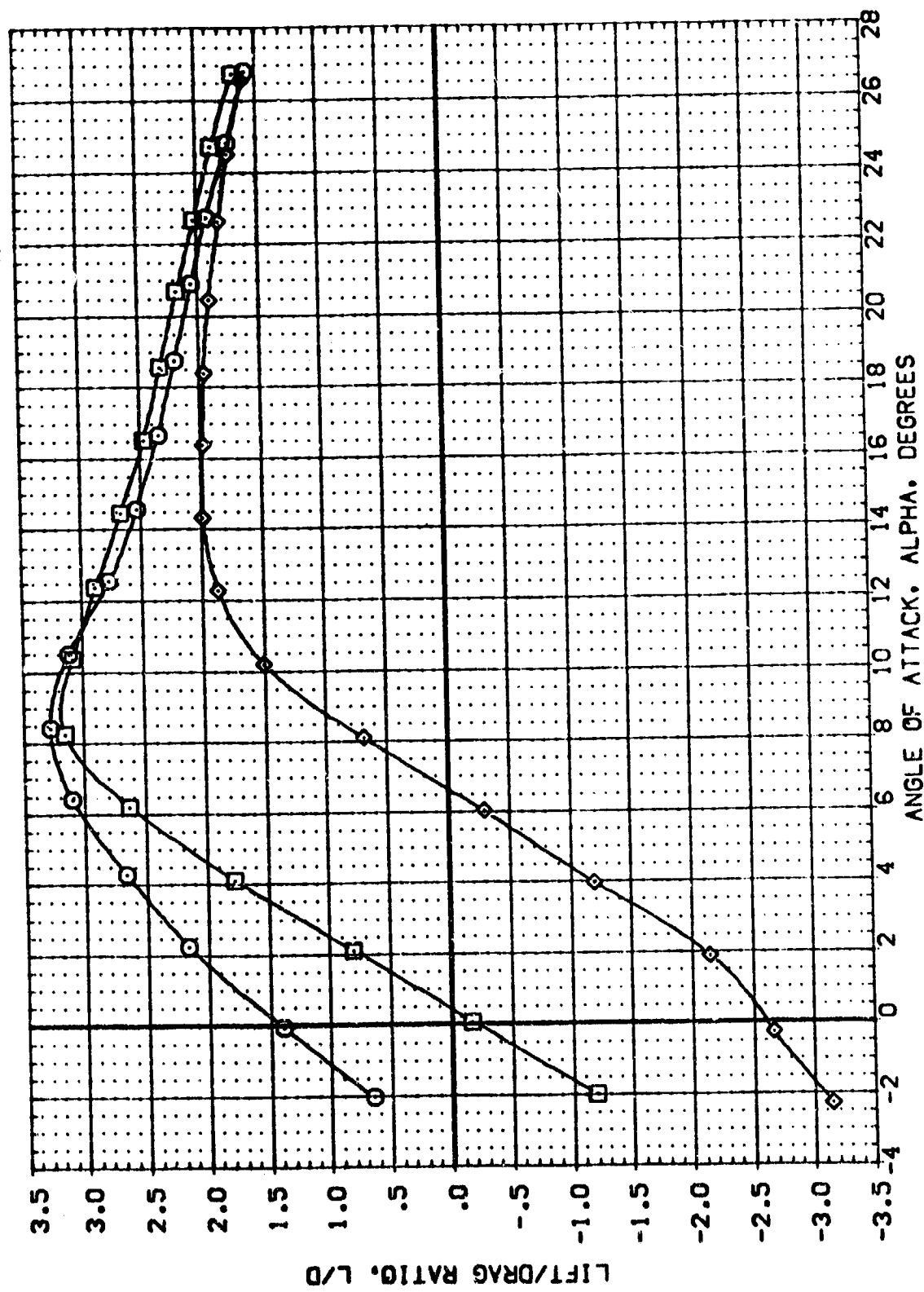


FIG. 7 ELEVONS DEFLECTED

(MACH = .60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	YMRP 1076.4800 IN.
						ZMRP .0000 IN.
						SCALE .0150

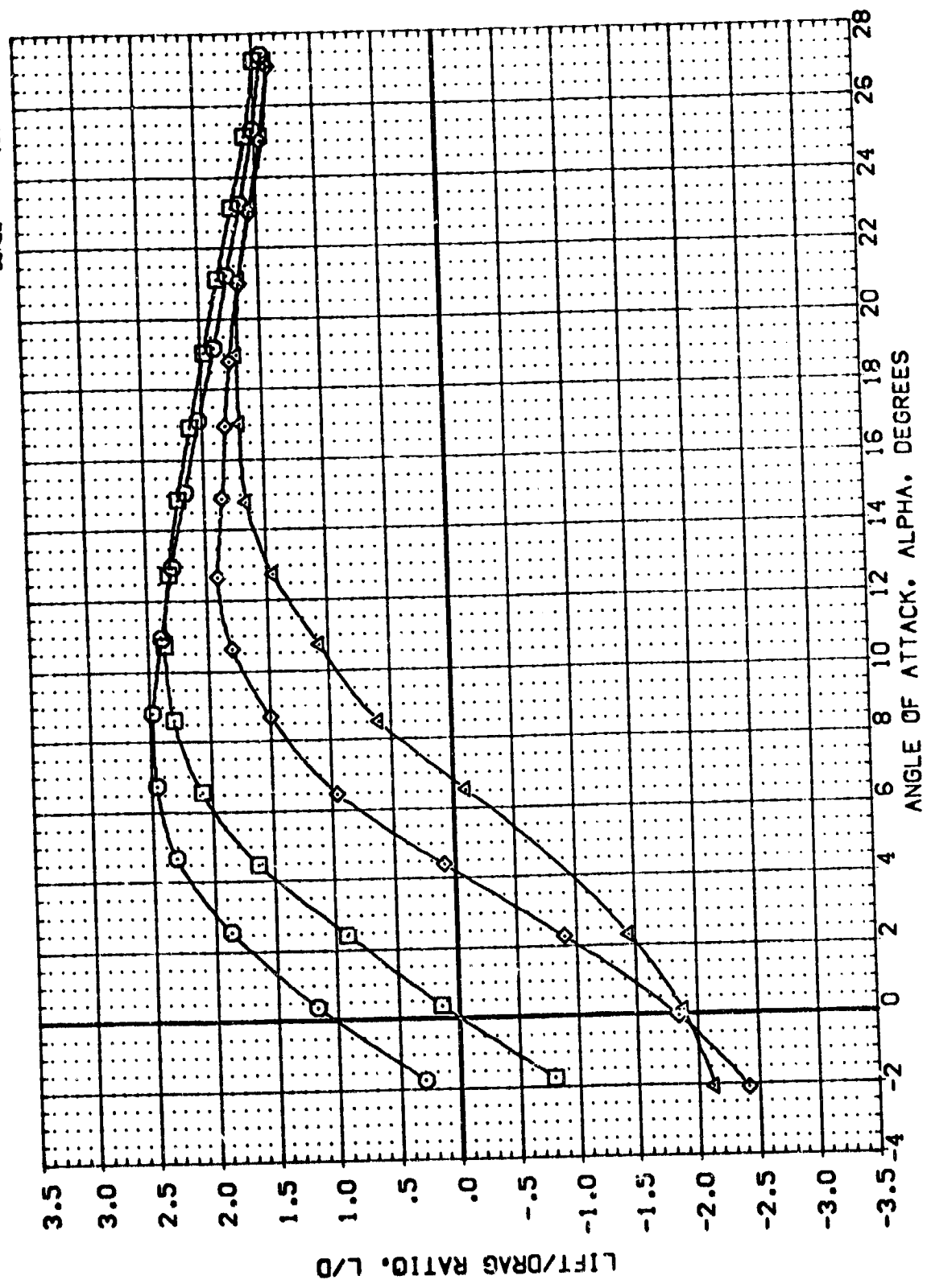


FIG. 7 ELEVONS DEFLECTED

(B) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
[RB:005]	APES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[RB:004]	APES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	LREF 171.8000 IN.
[RB:022]	APES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
[RB:006]	APES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	-40.000	54.900	.000	XMRP 1076.4800 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

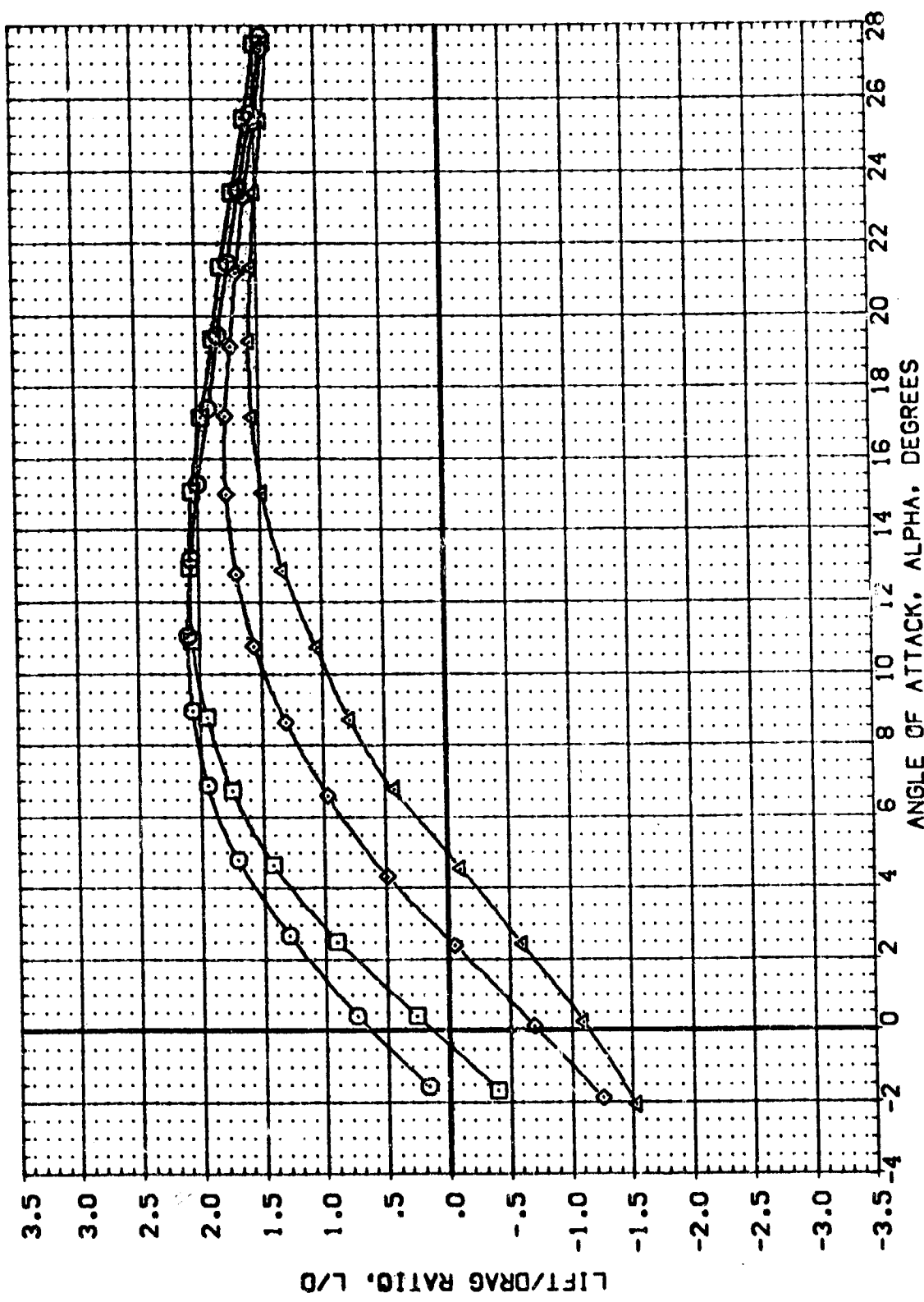


FIG. 7 ELEVONS DEFLECTED
(C/MACH = 1.20)

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(R8T003)	AVES 66-706 DM3 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	10.000	54.900	.000	SREF 2690.0000 50.FT.
(R8T004)	AVES 66-706 DM3 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	.000	54.900	.000	LREF 474.8000
(R8T022)	AVES 66-706 DM3 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-20.000	54.900	.000	BREF 936.8800
(R8T006)	AVES 66-706 DM3 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-40.000	54.900	.000	XREF 1076.4800
						YREF .0000
						ZREF 400.0000
						SCALE .0150

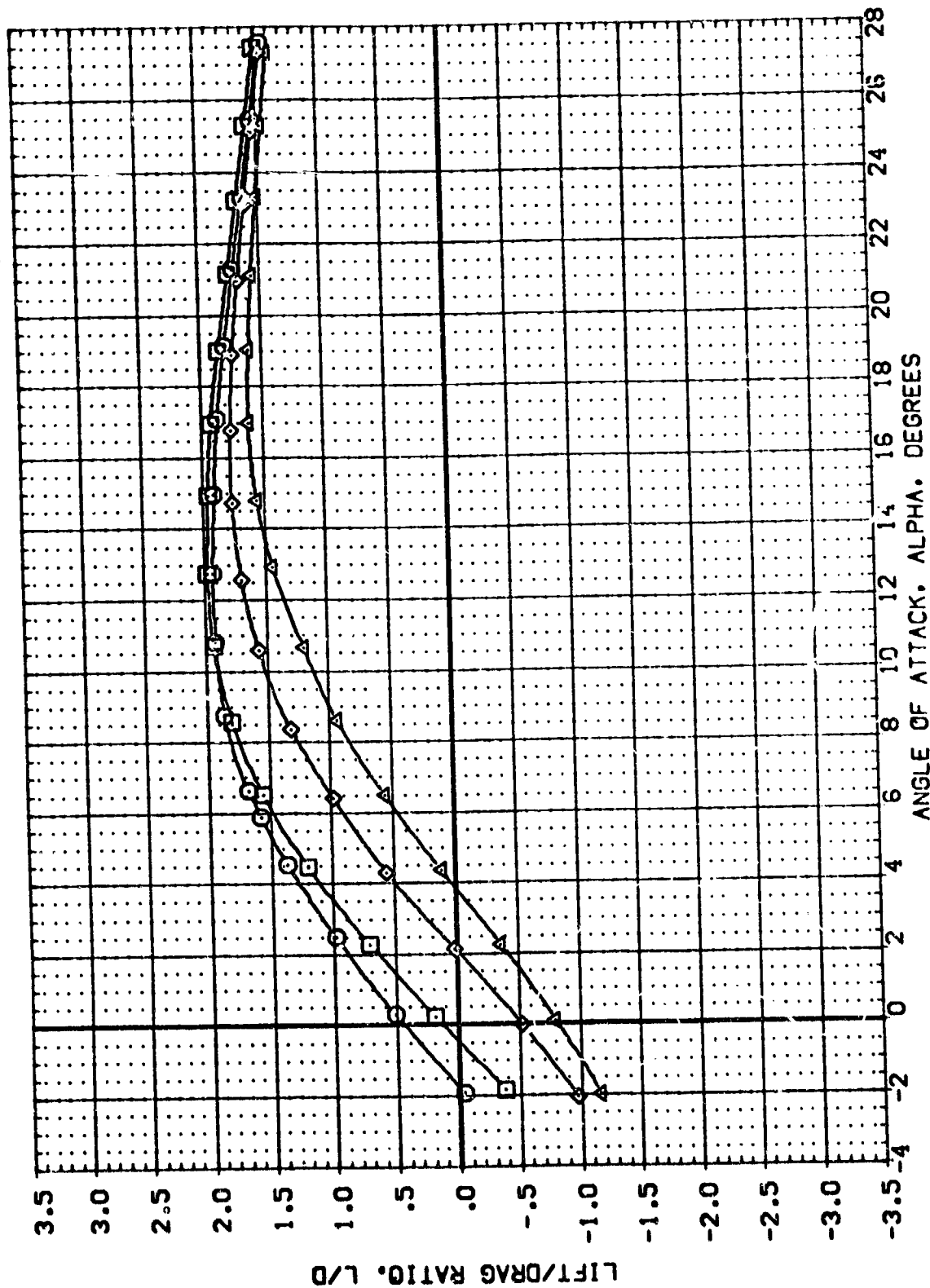


FIG. 7 ELEVONS DEFLECTED

(O)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(R81005)	AMES 66-706 OA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.500	.000	SREF 2630.0000 SQ.FT.
(R81004)	AMES 66-706 OA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(R81022)	AMES 66-706 OA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(R81006)	AMES 66-706 OA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-40.000	54.500	.000	YMRP 1076.4800 IN.
						ZMRP 100.0000 IN.
						SCALE .0150

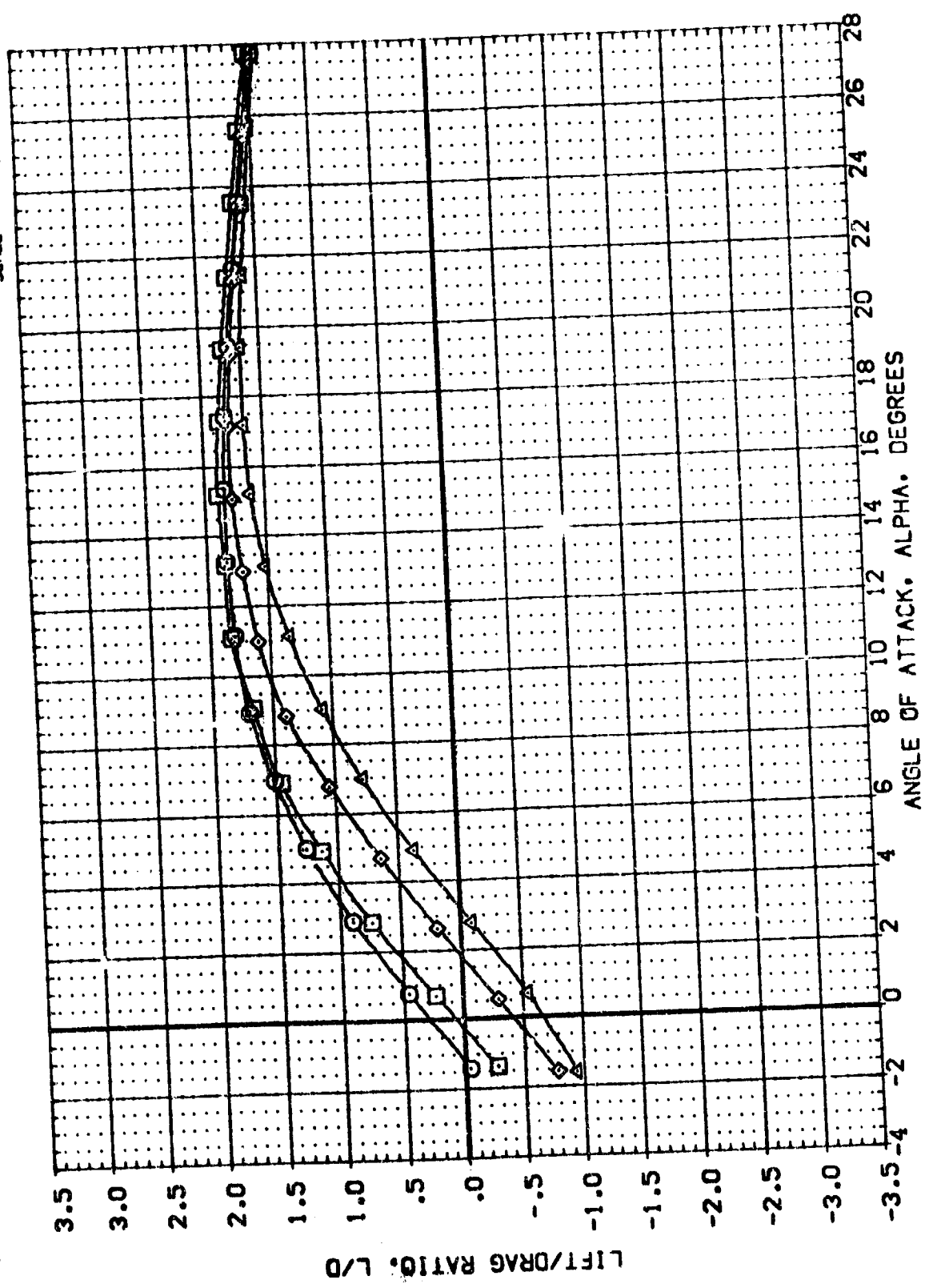


FIG. 7 ELEVONS DEFLECTED

WEDMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R81005)	AVES 66-706 QM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(R81004)	AVES 66-706 QM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 174.8000 IN.
(R81003)	AVES 66-706 QM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(R81002)	AVES 66-706 QM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XMRP 1076.4800 IN.
(R81001)	DATA NOT AVAILABLE					YMRP .0000 IN.
						ZMRP .0150 IN.
						SCALE

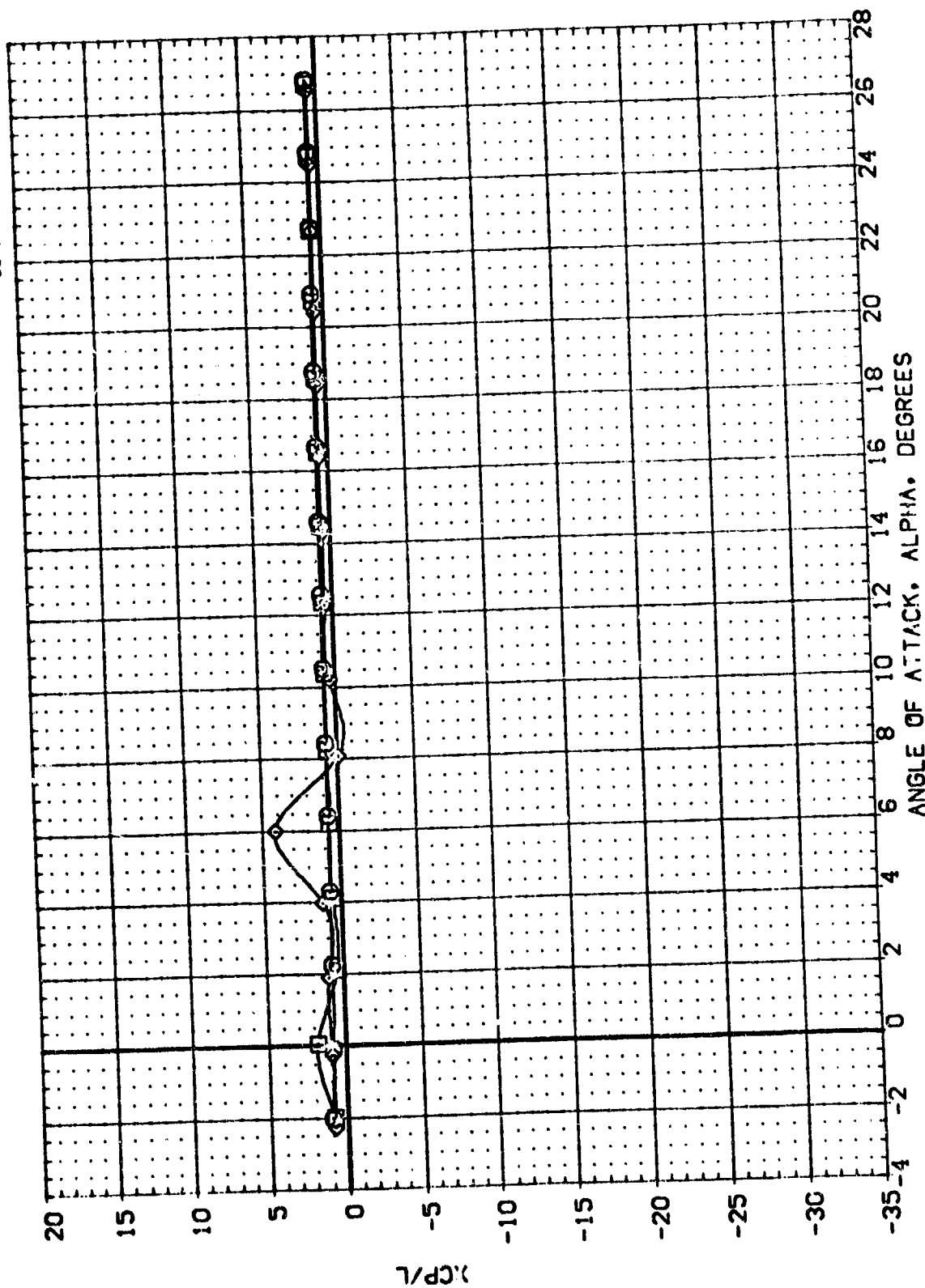


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R81005)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	SREF 2690.0000 SQ.FT.
(R81004)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	LREF 774.8000 IN.
(R81022)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	SREF 936.6800 IN.
(R81006)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	XVREF 1076.4800 IN.
						ZVREF 400.0000 IN.
						SCALE .0150

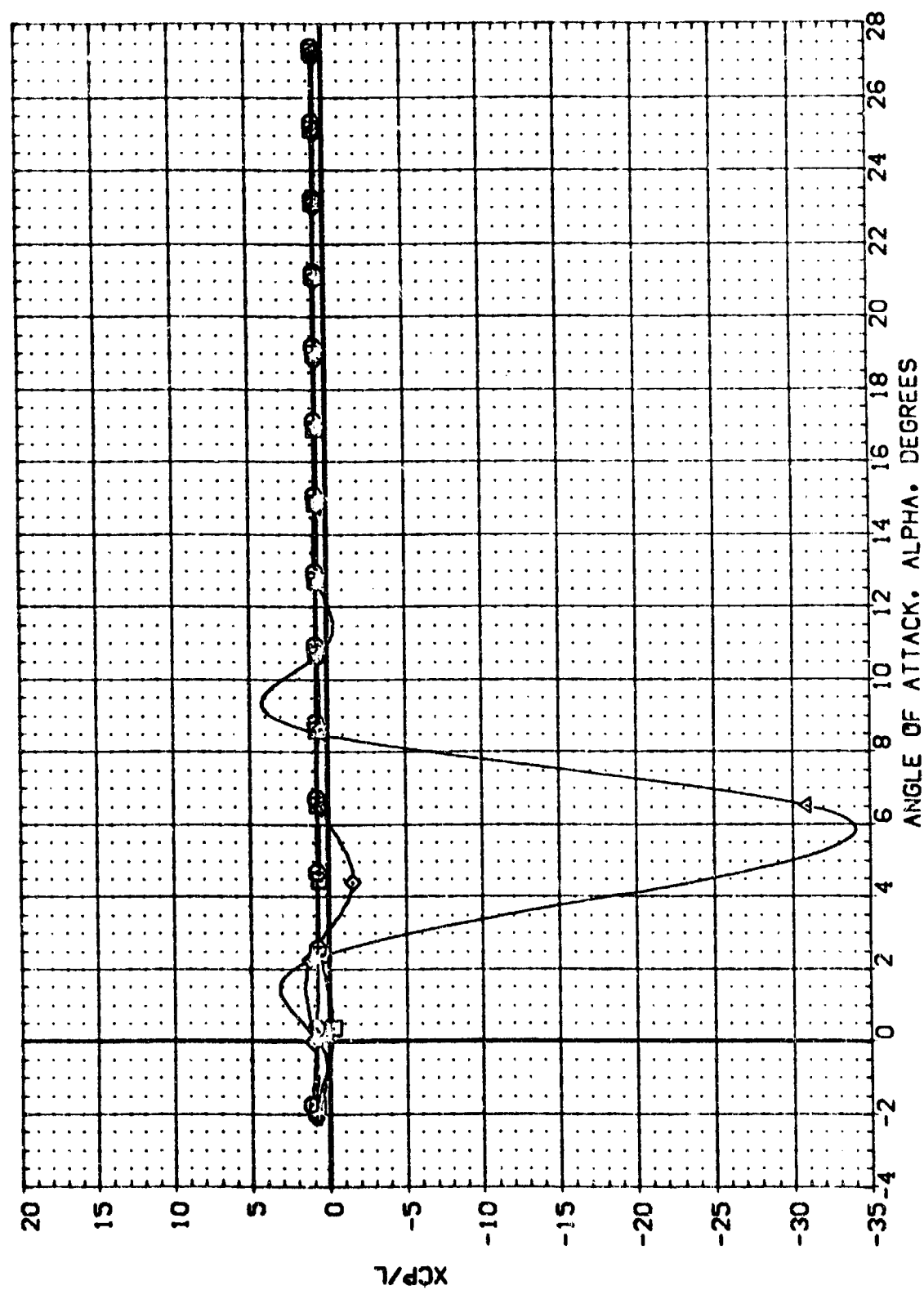


FIG. 7 ELEVONS DEFLECTED
(8)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SP08BK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-705 DM13 B10 CS 07 K3 F4 V87E18 V595	-14.200	10.000	54.500	.000	SREF 2650.0000 50.FT.
(RBT004)	AVES 66-705 DM13 B10 CS 07 K3 F4 V87E18 V595	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(RBT022)	AVES 66-705 DM13 B10 CS 07 K3 F4 V87E18 V595	-14.200	-20.000	54.500	.000	BREF 536.6800 IN.
(RBT006)	AVES 66-705 DM13 B10 CS 07 K3 F4 V87E18 V595	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF .0150 SCALE

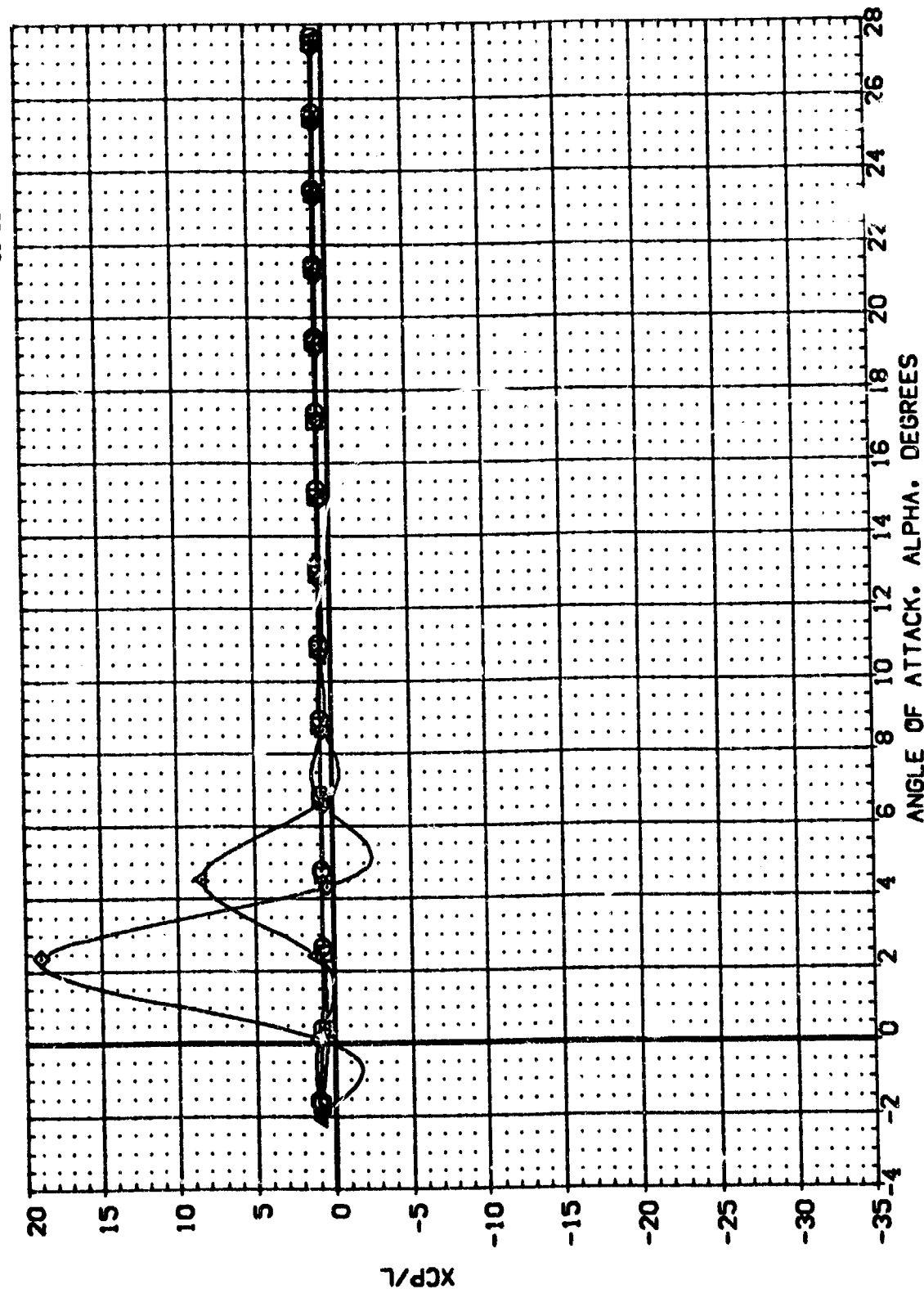


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		DOOF		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION			
[RBT005]	AVES 66-706	DA43	810	CS	D7	M3	F4	V87E18	V59S	-14.200	10.000	54.500	0.000	2690.0000	SC.FT.
[RBT004]	AVES 66-706	DA43	810	CS	D7	M3	F4	V87E18	V59S	-14.200	0.000	54.500	0.000	474.8000	IN.
[RBT022]	AVES 66-706	DA43	810	CS	D7	M3	F4	V87E18	V59S	-14.200	-20.000	54.500	0.000	936.6900	IN.
[RBT006]	AVES 66-706	DA43	810	CS	D7	M3	F4	V87E18	V59S	-14.200	-40.000	54.500	0.000	1076.4900	IN.
														400.0000	IN.
														SCALE	0.150

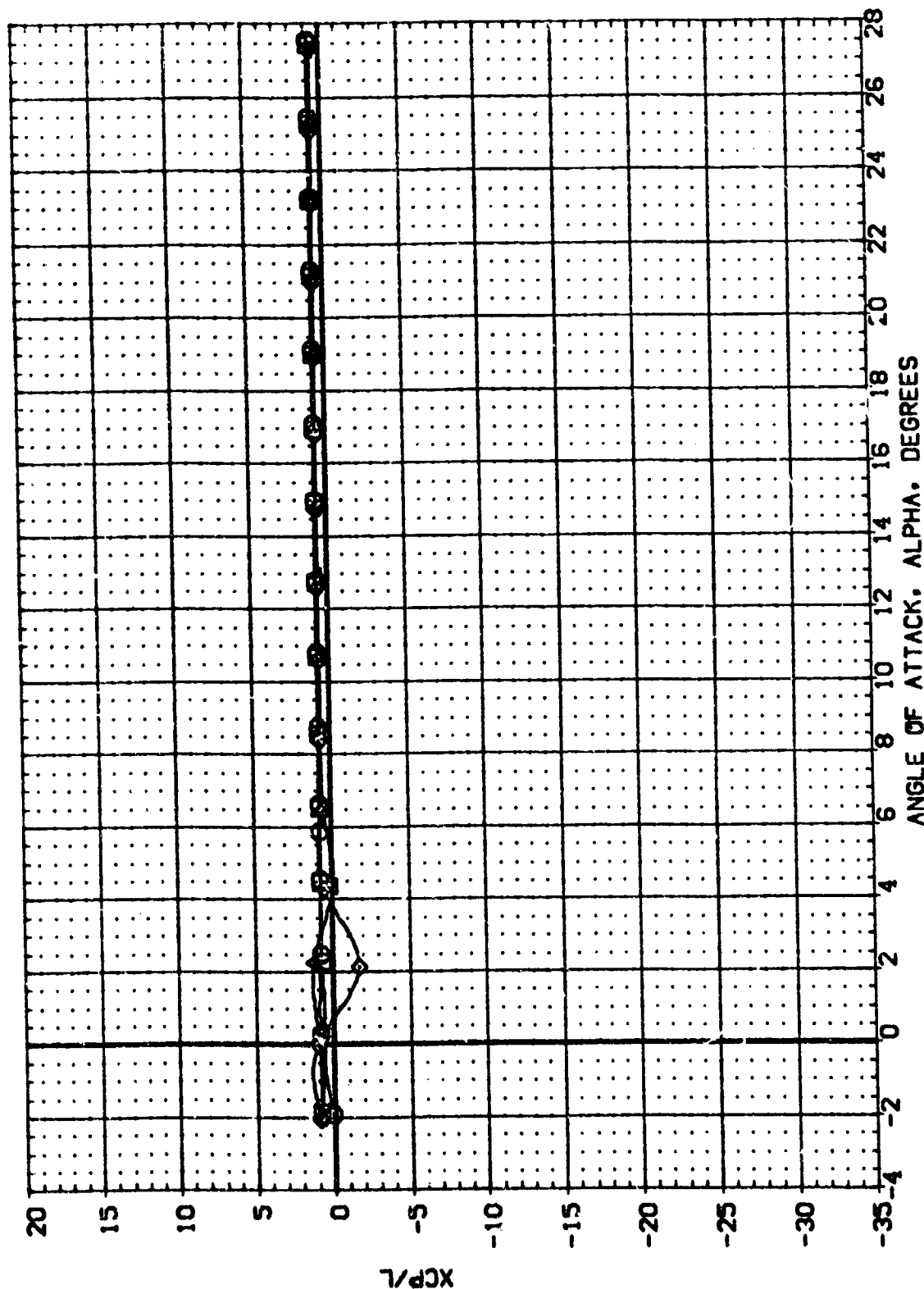


FIG. 7 ELEVONS DEFLECTED

(D)MACH = 1.50



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
[RBTC05]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	51.900	.000	SREF 2690.0000 SQ.FT.
[RBTC04]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	51.900	.000	LREF 474.8000 IN.
[RBTC72]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	51.900	.000	BREF 936.6800 IN.
[RBTC75]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	51.900	.000	XMRP 1076.4800 IN.
						YMRP 400.0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150

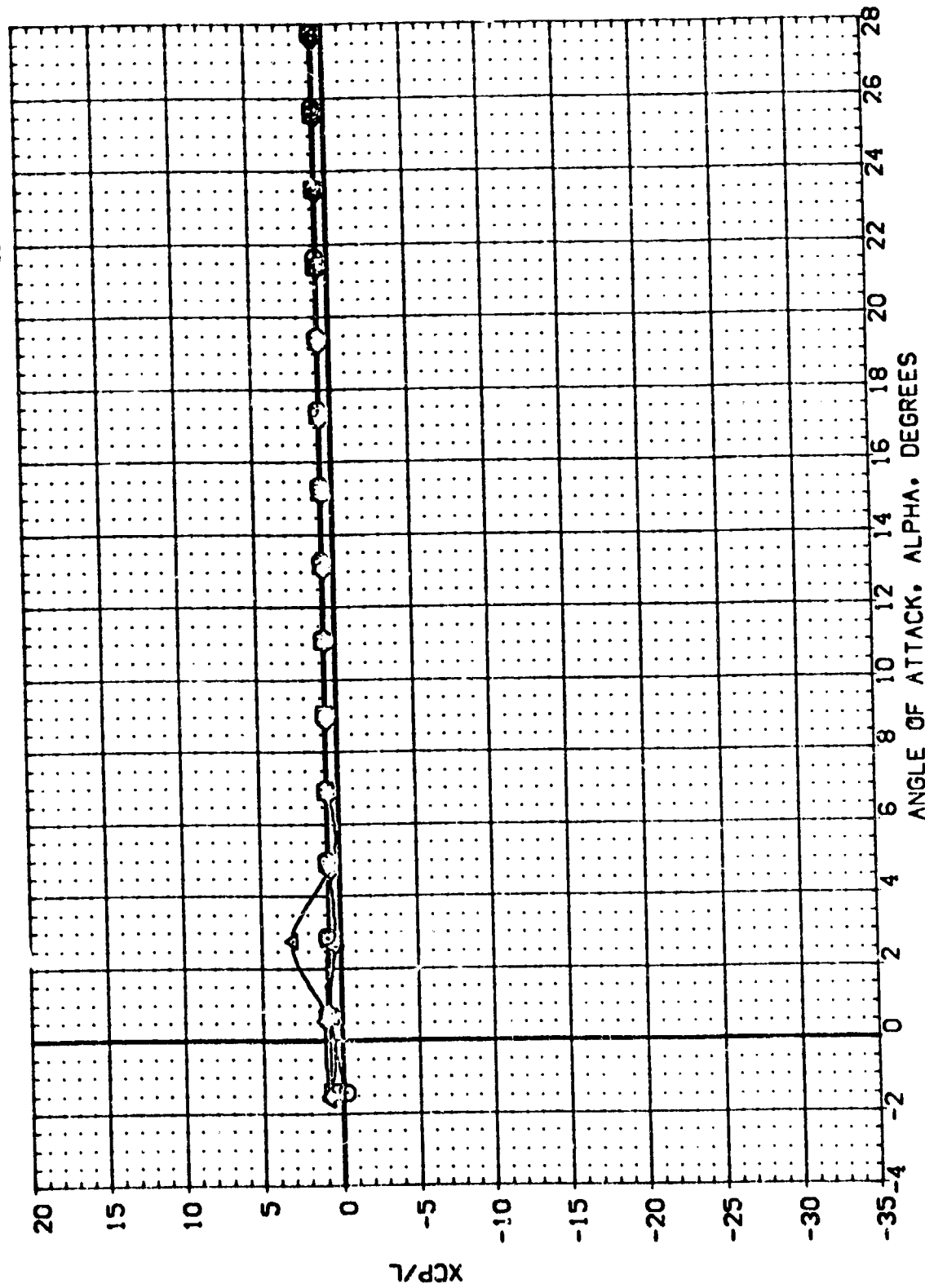


FIG. 7 ELEVONS DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	\$4,900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	\$4,900	.000	LREF 474.8000 IN.
(RBT002)	AVES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	20.000	\$4,900	.000	BREF 936.6800 IN.
(RBT006)	DATA NOT AVAILABLE	-14.200	-40.000	\$4,900	.000	XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 100.0000 IN.
						SCALE .0150

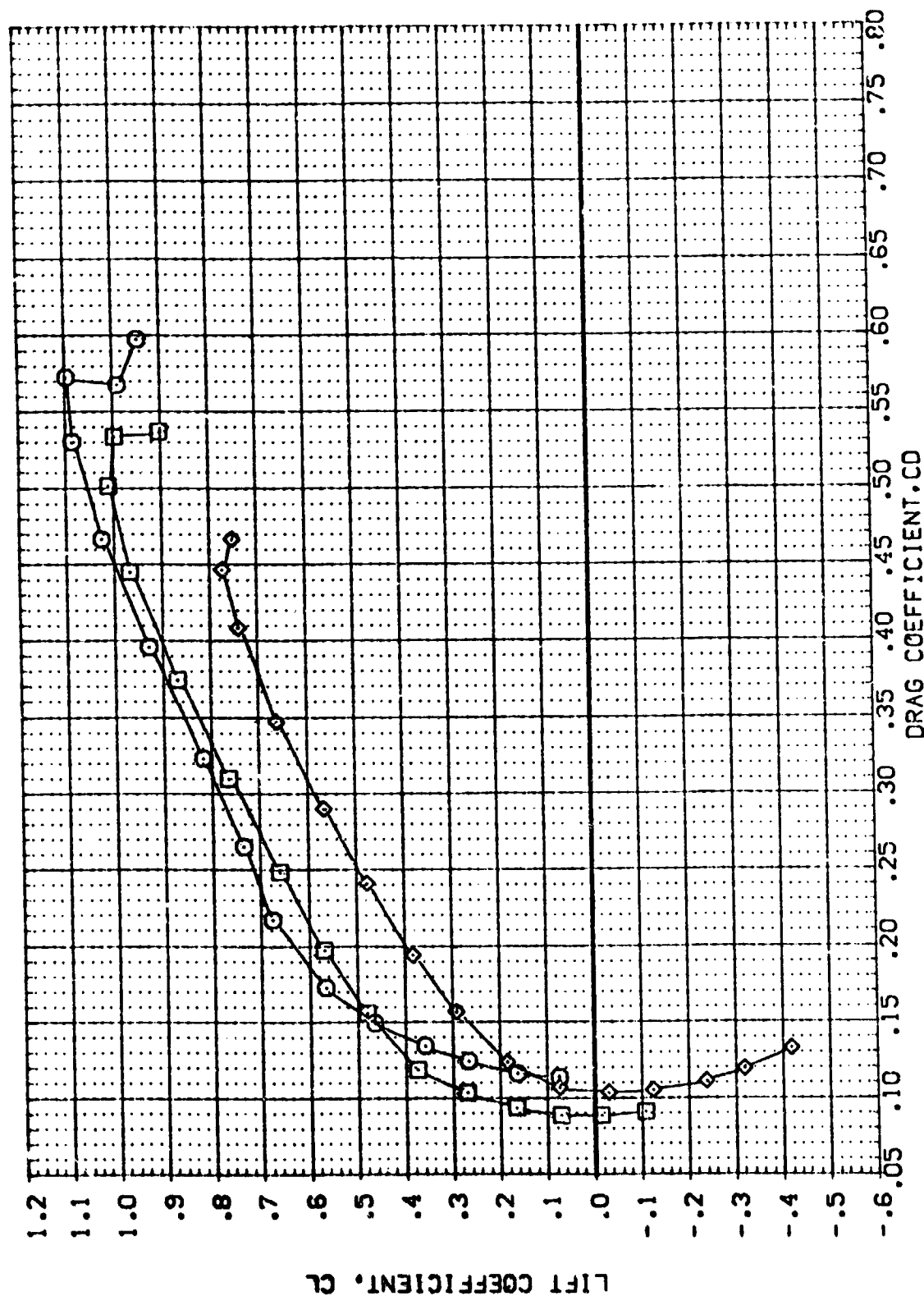


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R8T005)	A-ES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SO.FT. N.
(R8T004)	A-ES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 N.
(R8T022)	A-ES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 N.
(R8T006)	A-ES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XREF 1076.4800 N.
						YREF .0000 N.
						ZREF 400.0000 N.
						SCALE .0150 SCALE

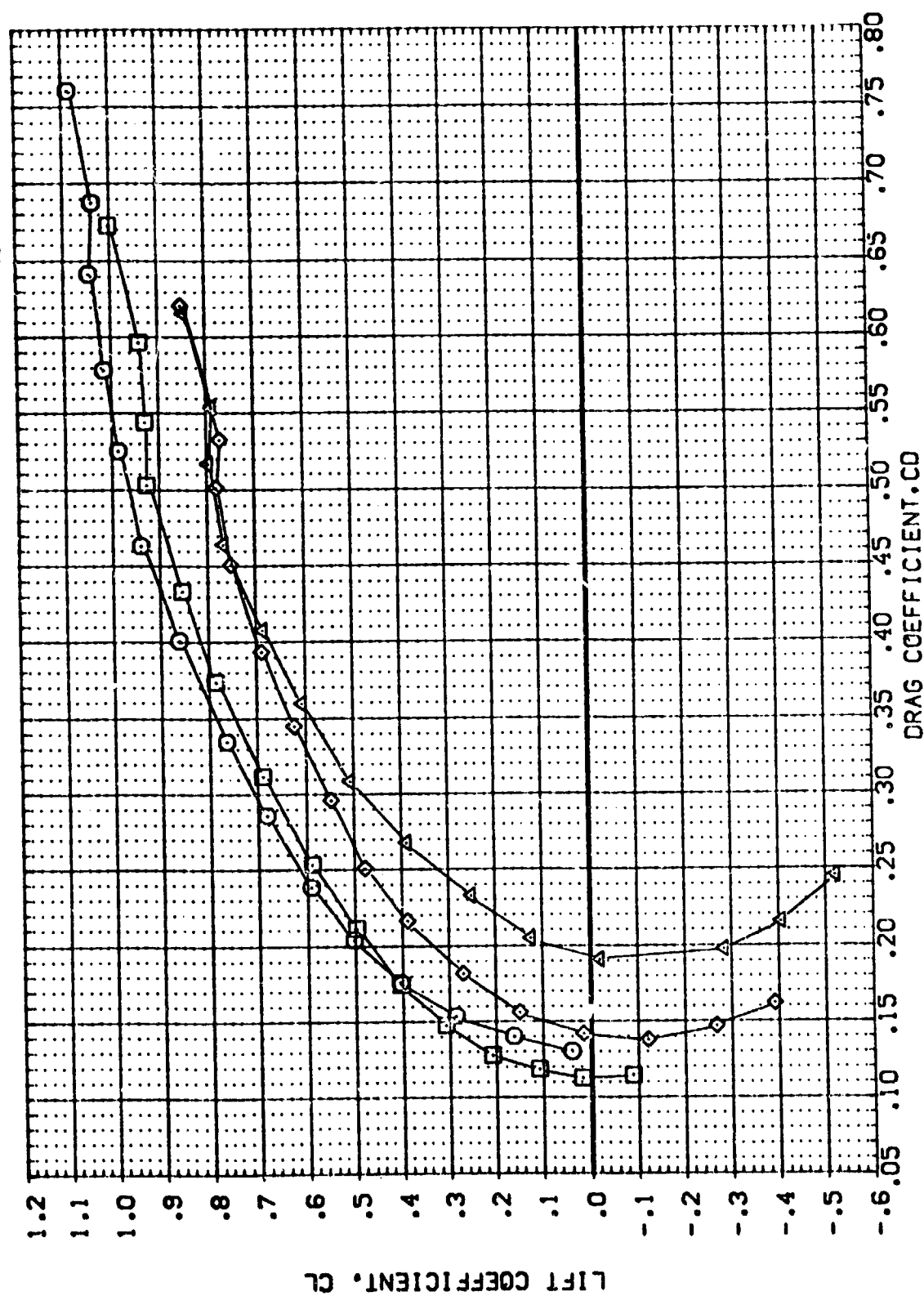


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RLODER	REFERENCE INFORMATION
(RBT005)	AVES 66-706 DA43 B10 CS D7 V3 F4 V87E18 V5P5	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 DA43 B10 CS D7 V3 F4 V87E18 V5P5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RBT002)	AVES 66-706 DA43 B10 CS D7 V3 F4 V87E18 V5P5	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	AVES 66-706 DA43 B1C CS D7 V3 F4 V87E18 V5P5	-14.200	-40.000	54.900	.000	XMRP 1076.4800 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

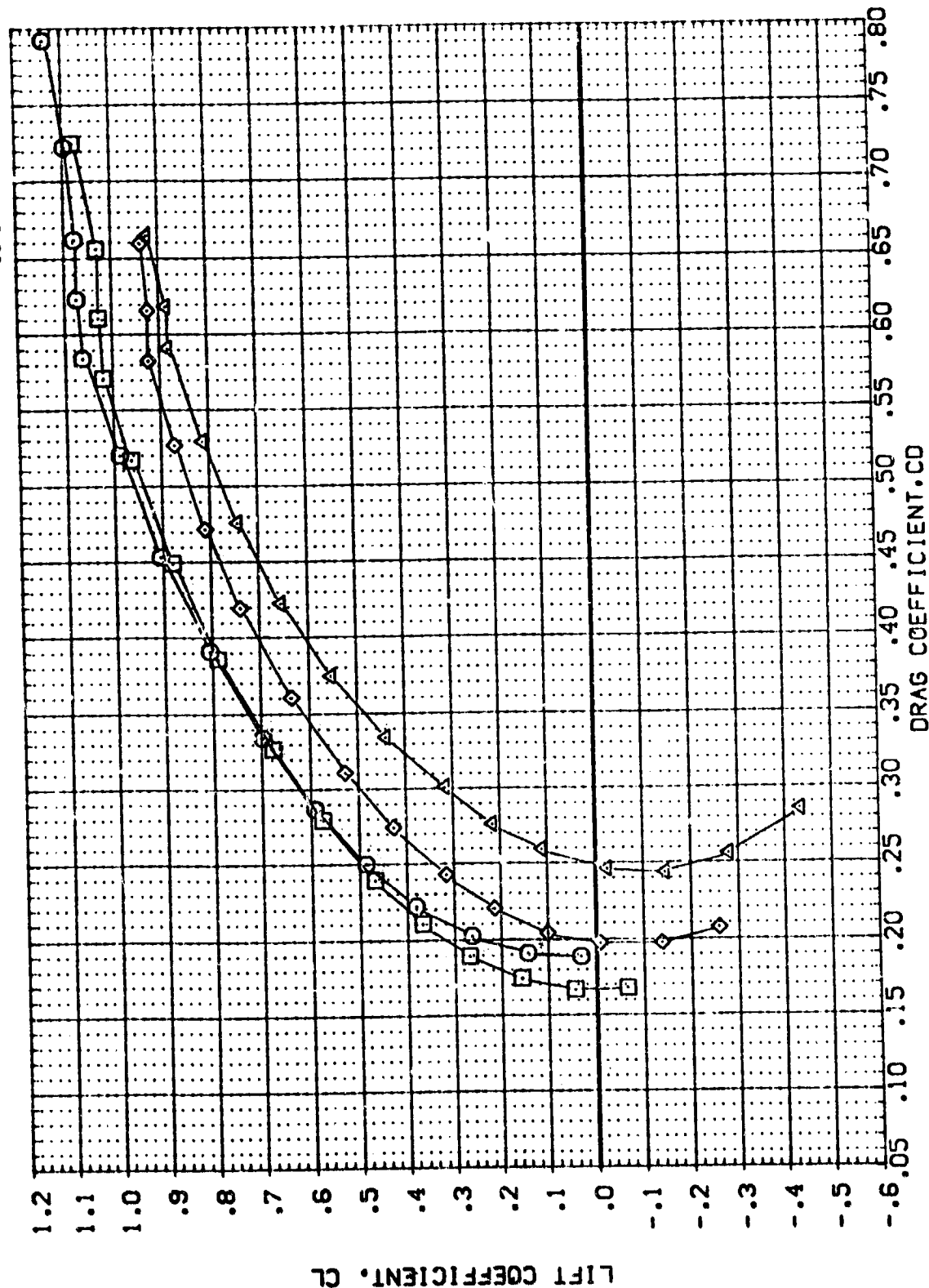


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R) 005	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	SREF 2650.0000 SQ.FT.
(R) 004	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	LREF 474.8000 IN.
(R) 022	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(R) 006	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

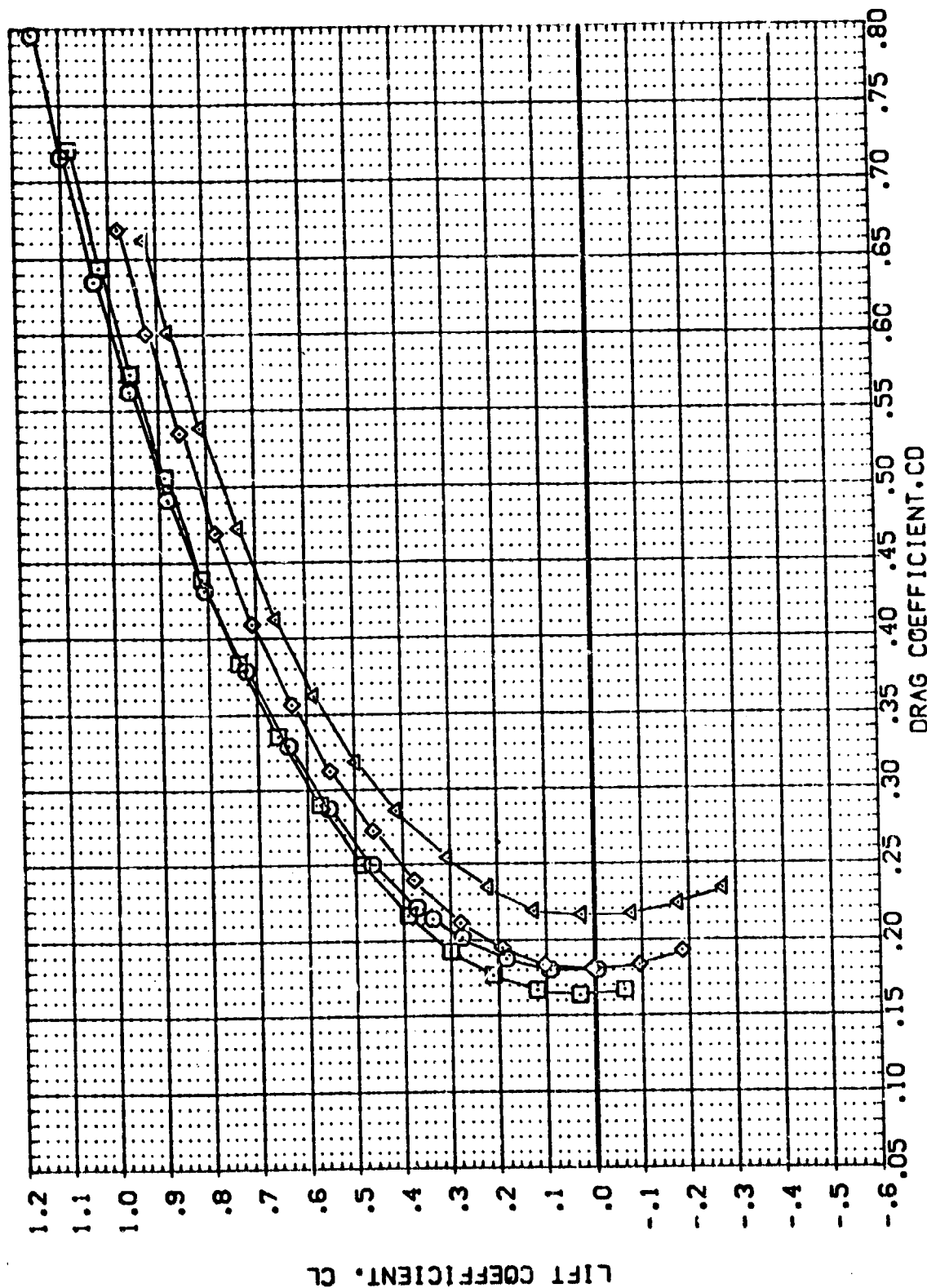


FIG. 7 ELEVONS DEFLECTED

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
[RBT005]	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[RBT004]	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
[RBT022]	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
[RBT036]	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	-40.000	54.900	.000	XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150 SCALE

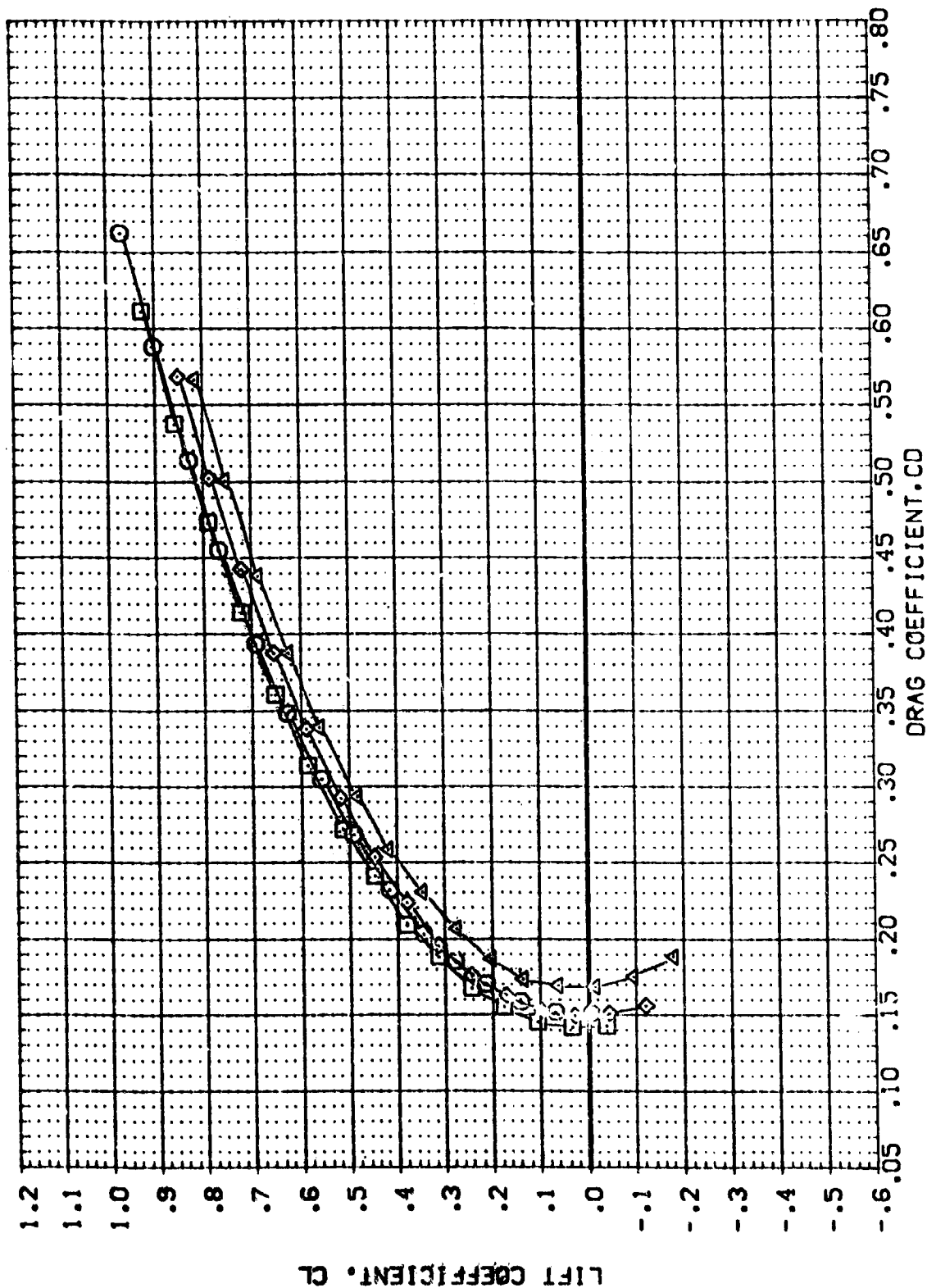


FIG. 7 ELEVONS DEFLECTED
(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPORX	RUDDER	REFERENCE INFORMATION
(R81005)	AVES 66-706 DM43 B10 CS D7 M3 F4 V67E18 VSRS	-14.200	10.000	54.500	.000	SREF 2650.0000 SQ.FT.
(R81004)	AVES 66-706 DM43 B10 CS D7 M3 F4 V67E18 VSRS	-14.200	0.000	54.500	.000	LREF 474.8000 IN.
(R81022)	AVES 66-706 DM43 B10 CS D7 M3 F4 V67E18 VSRS	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(R81026)	DATA NOT AVAILABLE	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
					.000	YREF 0.0000 IN.
					.000	ZREF 0.0000 IN.
					.000	SCALE .0150

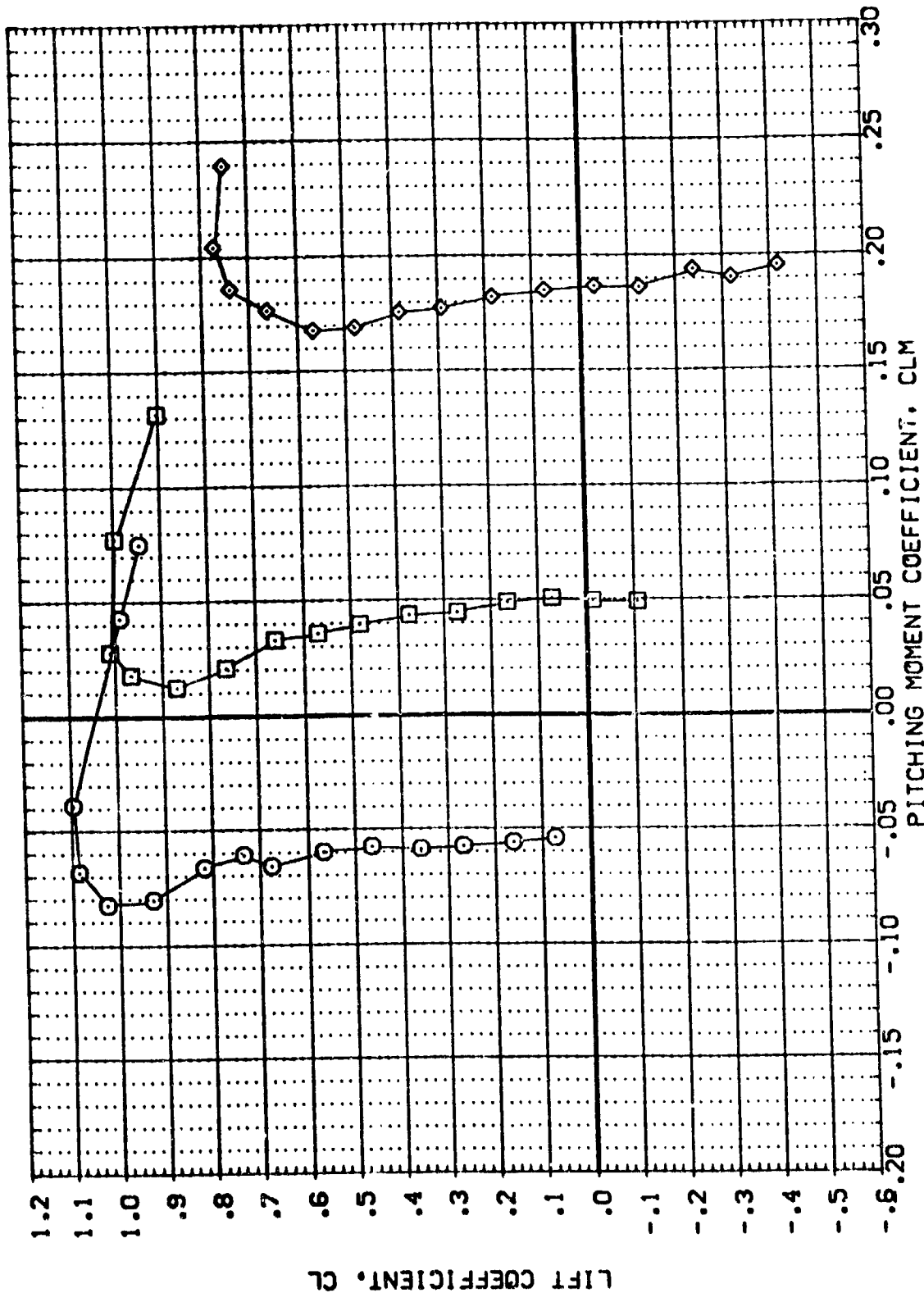


FIG. 7 ELEVONS DEFLECTED

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R8T005)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VS9S	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(R8T004)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VS9S	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(R8T022)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VS9S	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(R8T006)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VS9S	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF .0150 SCALE

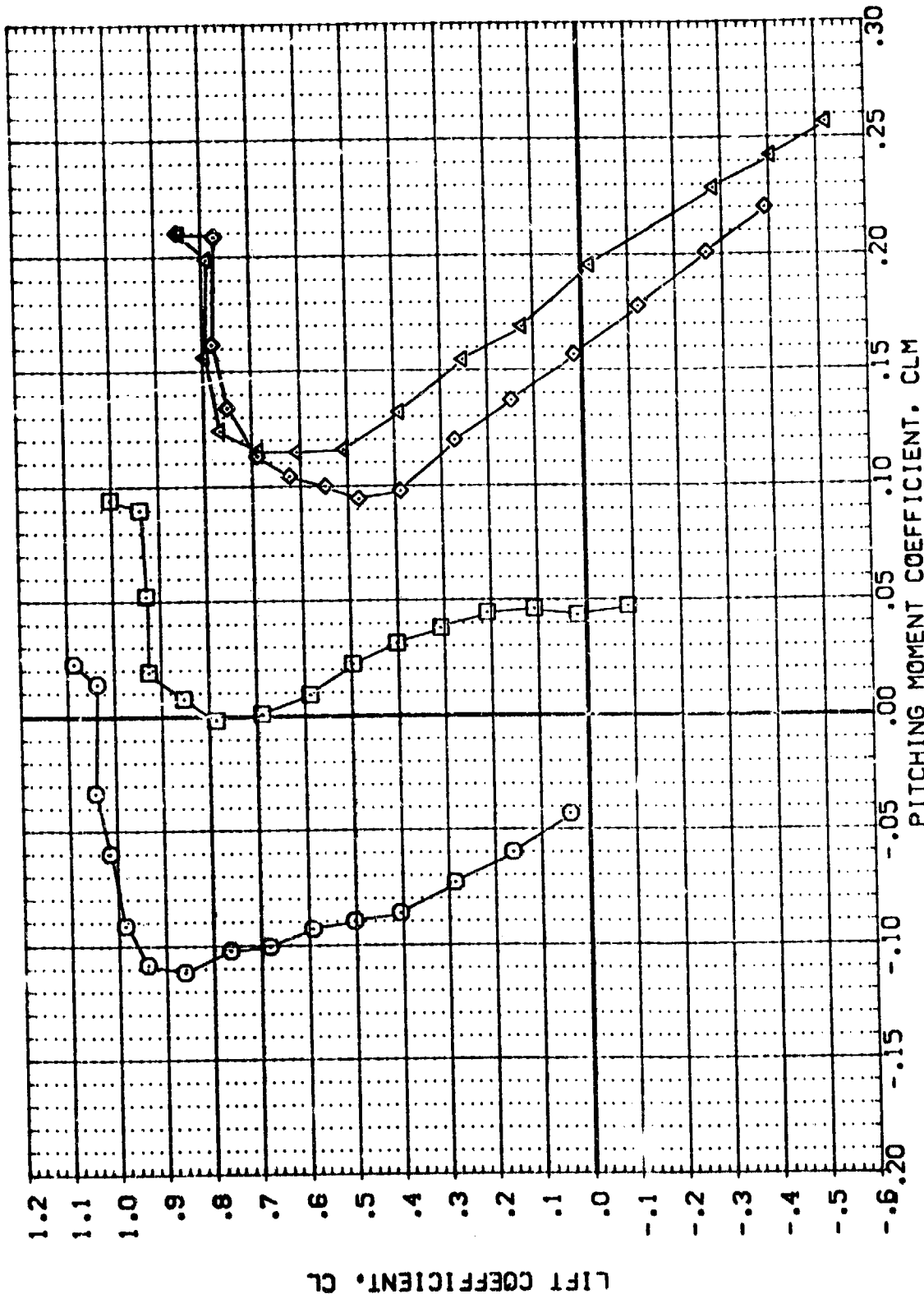


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	WING PLANFORM	ELEVON	SPORER	RUDDER	REFERENCE INFORMATION
(RST003)	○	AVES 66-706 CM43 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RST004)	□	AVES 66-706 CM43 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	10.000	54.900	.000	LREF 474.6000 IN.
(RST005)	△	AVES 66-706 CM43 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RST006)	◇	AVES 66-706 CM43 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	-40.000	54.900	.000	TRRP 1076.4800 IN.
							ZTRP 400.0000 IN.
							SCALE .0150

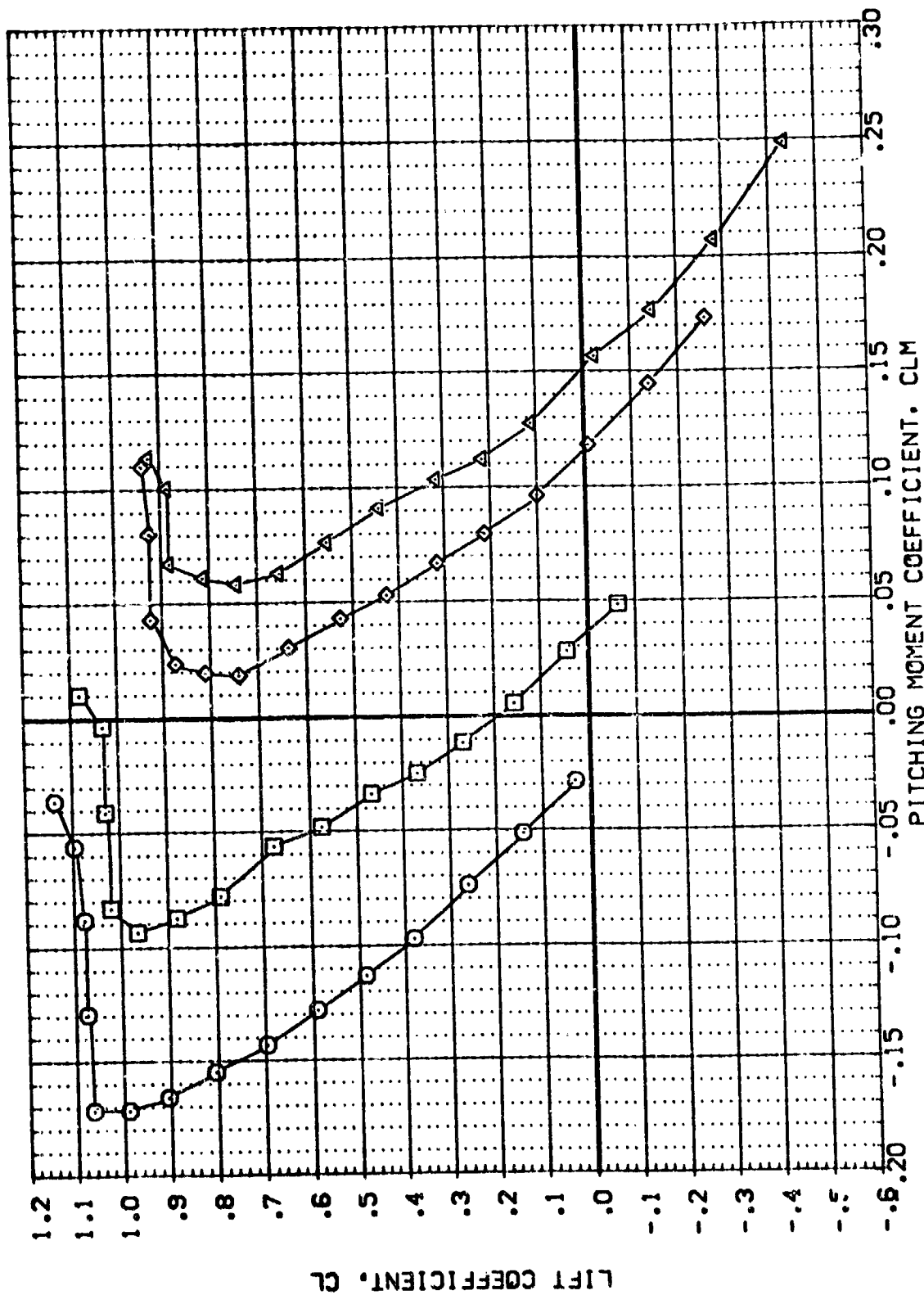


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20

DATA	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBAY	RUDDER	REFERENCE INFORMATION
(R81005)	○	APES 66-706 CA43 B10 CS D7 M3 F4 V67E18 V5K5	-14.200	10.000	54.500	.000	SREF 2690.0000 SQ.FT.
(R81004)	□	APES 66-706 CA43 B10 CS D7 M3 F4 V67E18 V5K5	-14.200	.000	54.500	.000	LREF 474.8300 IN.
(R81022)	×	APES 66-706 CA43 B10 CS D7 M3 F4 V67E18 V5K5	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
(R81006)	△	APES 66-706 CA43 B10 CS D7 M3 F4 V67E18 V5K5	-14.200	-40.000	54.500	.000	XREF 1076.4800 IN.
							YREF .0000 IN.
							ZREF 400.0000 IN.
							SCALE .0150

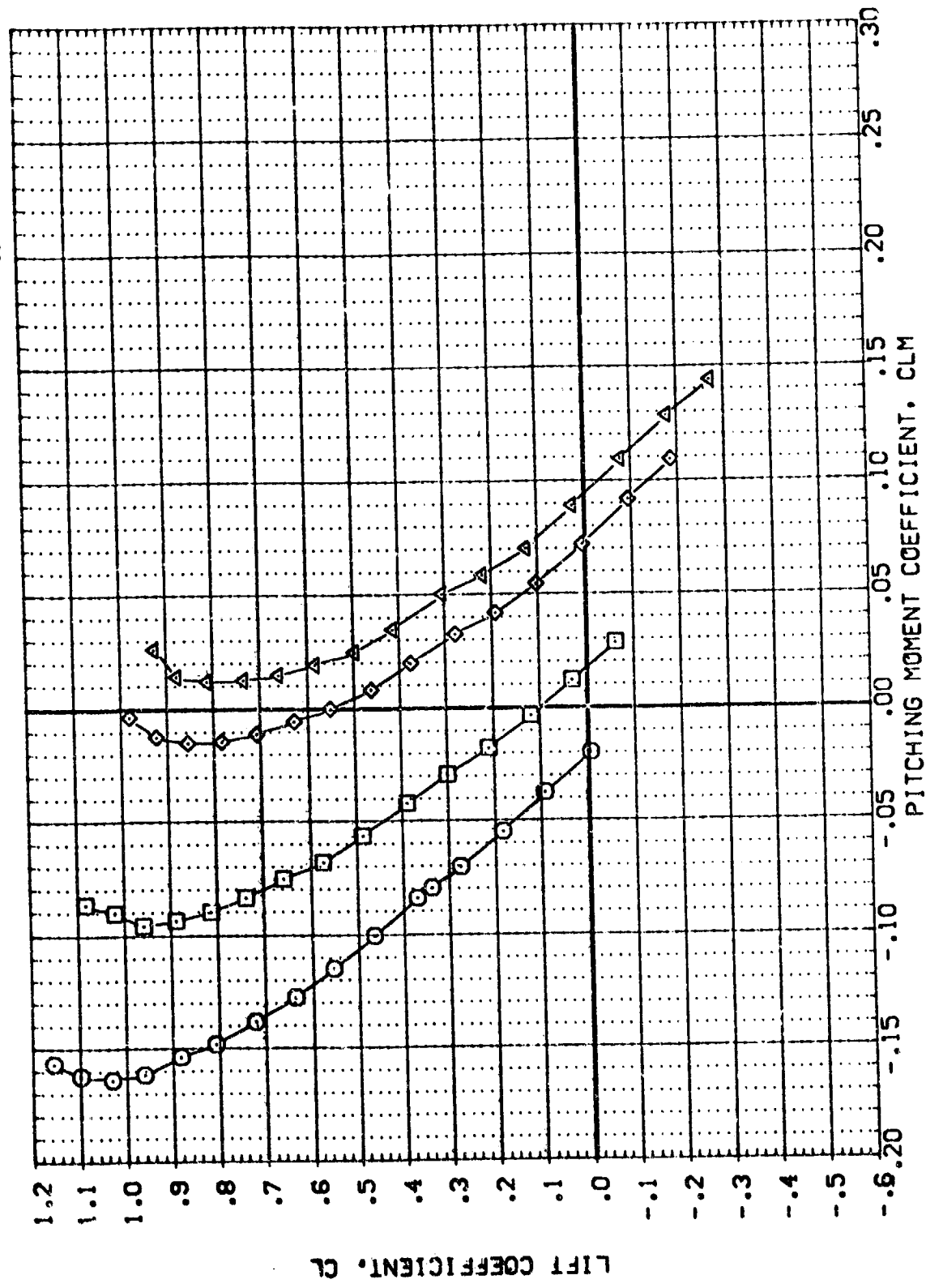


FIG. 7 ELEVONS DEFLECTED

(O)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 6C-706 CA43 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 6C-706 CA43 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	0.000	54.900	.000	LREF 474.8000 IN.
(RBT022)	AVES 6C-706 CA43 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RBT006)	AVES 6C-706 CA43 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

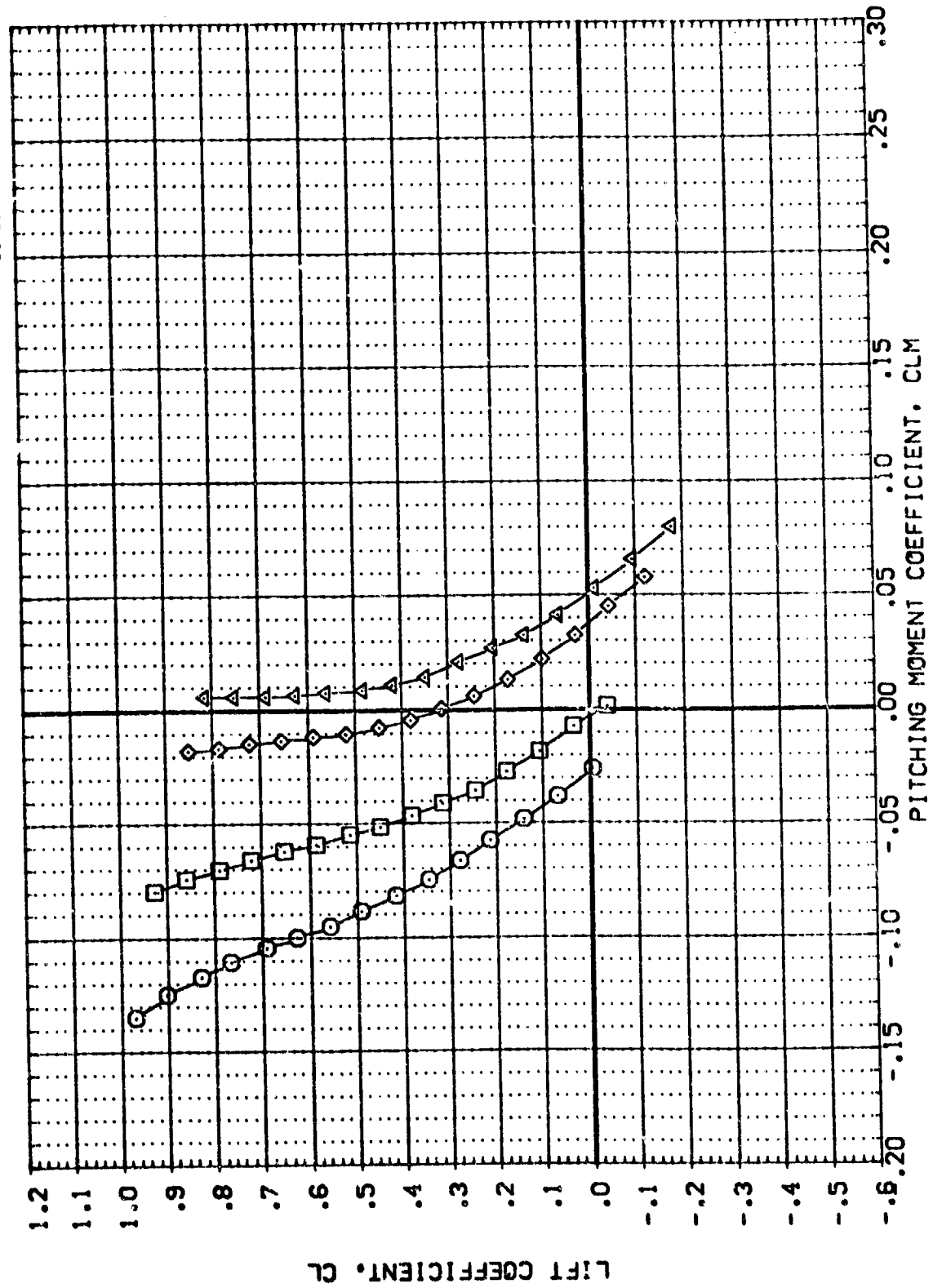


FIG. 7 ELEVONS DEFLECTED

(M)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPCRK		R-ODGR		REFERENCE INFORMATION	
[R8T005]	AVES 66-706 DA43 B10 CS D7 M3 F4	#87E18	VSR5	-14.200	10.000	54.900	.000	SREF	2690.0000	90.000	90.000	90.000	
[R8T006]	AVES 66-706 DA43 B10 CS D7 M3 F4	#87E18	VSR5	-14.200	10.000	54.900	.000	LREF	474.6000	10.000	10.000	10.000	
[R8T007]	AVES 66-706 DA43 B10 CS D7 M3 F4	#87E18	VSR5	-14.200	10.000	54.900	.000	BREF	936.6000	10.000	10.000	10.000	
[R8T008]	AVES 66-706 DA43 B10 CS D7 M3 F4	#87E18	VSR5	-14.200	10.000	54.900	.000	XREF	1076.6000	10.000	10.000	10.000	
[R8T009]	DATA NOT AVAILABLE							YREF	400.0000	10.000	10.000	10.000	
								ZREF	400.0000	10.000	10.000	10.000	
								SCALE	21.50	SCALE			

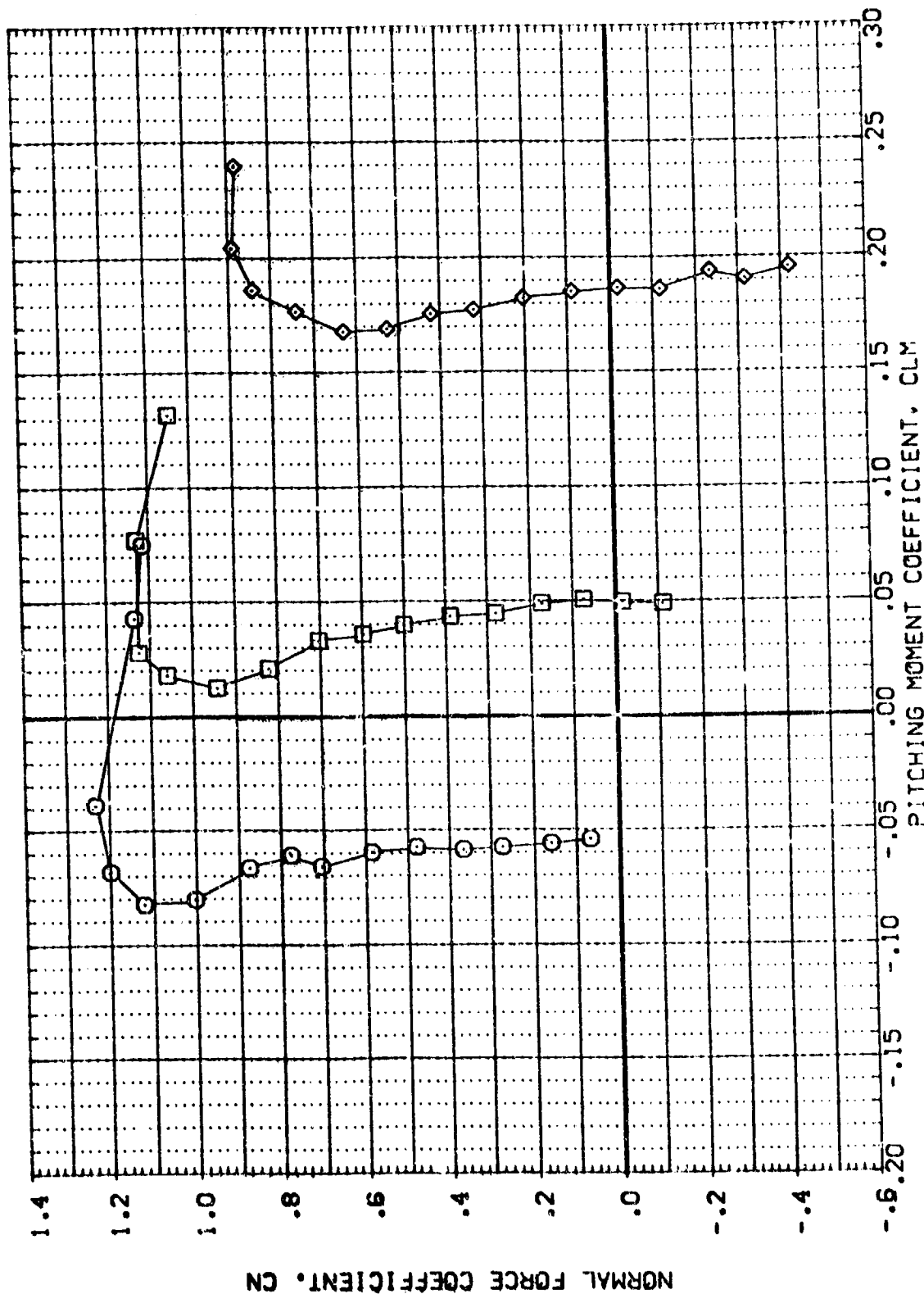


FIG. 7 ELEVONS DEFLECTED

(A)MACH = .60

DATA SET SYMB.	CONF. ILLUSTRATION DESCRIPTION	BOOF L"	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RB1005)	AVES 66-706 CA13 B10 CS D7 K3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RB1004)	AVES 66-706 CA13 B10 CS D7 K3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RB1022)	AVES 66-706 CA13 B10 CS D7 K3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(RB1006)	AVES 66-706 CA13 B10 CS D7 K3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

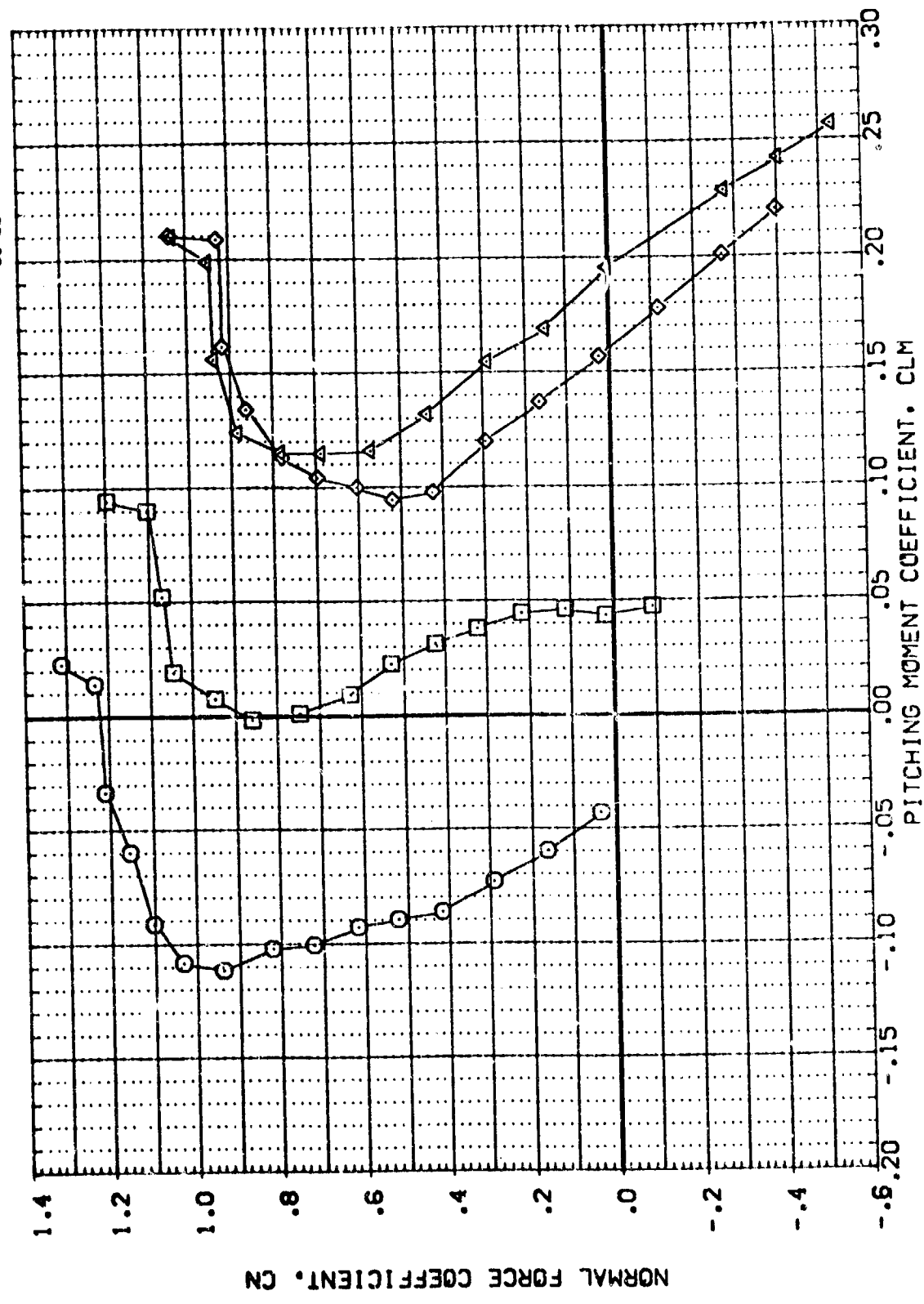


FIG. 7 ELEVONS DEFLECTED

(B) MACH = .90

DATA SET SYMBOL	CONF. IGRATION	DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RJODER	REFERENCE INFORMATION
[RBT005]	AVES 66-706	CA43 B10 CS D7 F3 F4 V87E18 VS9S	-14.200	10.000	54.900	.000	SREF 2690.0000 SC.FT.
[RBT004]	AVES 66-706	CA43 B10 CS D7 F3 F4 V87E18 VS9S	-14.200	10.000	54.900	.000	LREF 474.8000
[RBT022]	AVES 66-706	CA43 B10 CS D7 F3 F4 V87E18 VS9S	-14.200	10.000	54.900	.000	EREF 936.6800
[RBT006]	AVES 66-706	CA43 B10 CS D7 F3 F4 V87E18 VS9S	-14.200	10.000	54.900	.000	VREF 1076.4900
							ZREF 400.0000
							SCALE 0.50

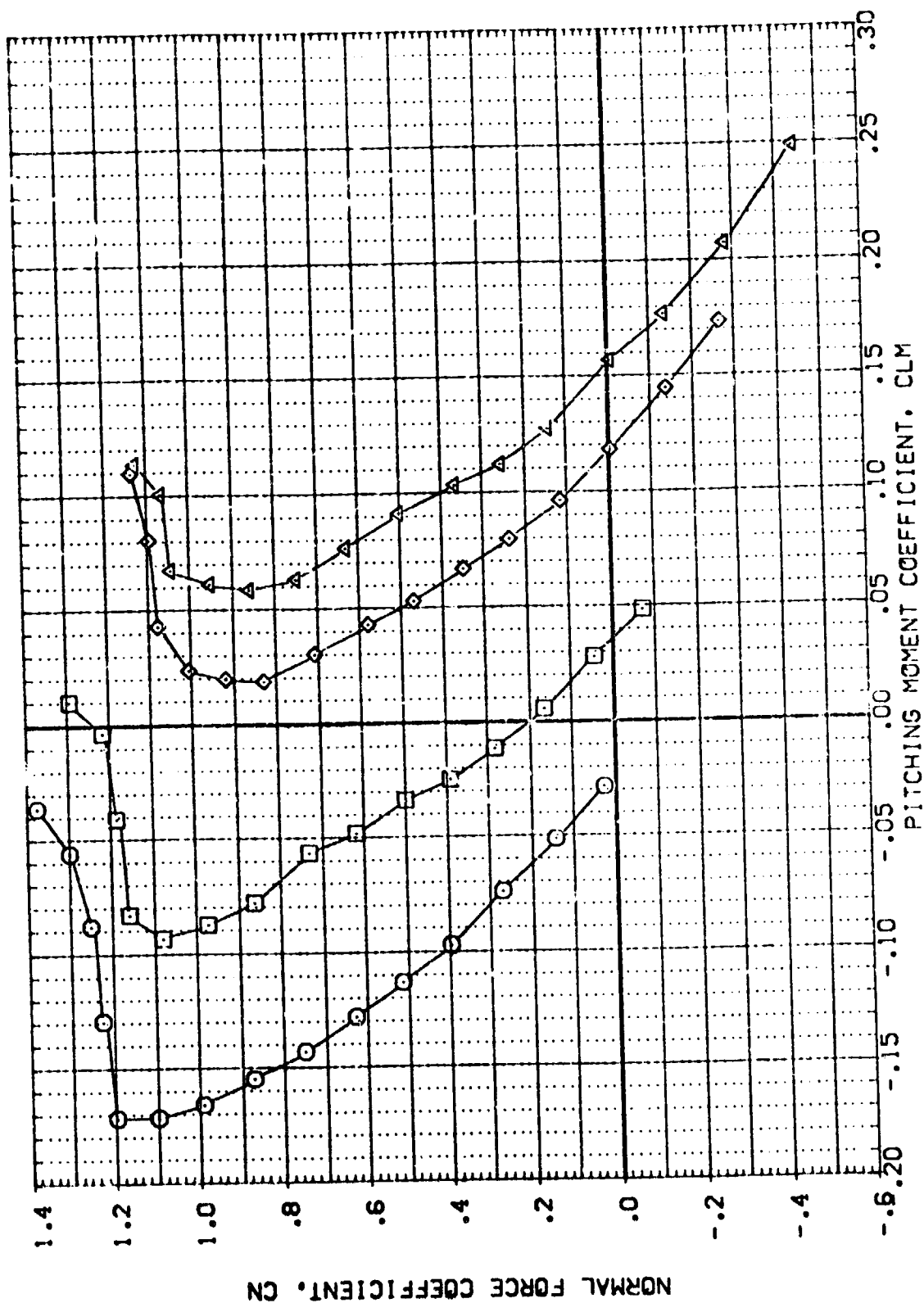


FIG. 7 ELEVONS DEFLECTED

(MACH = 1.20)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AXES 66-708 0A13 B10 C5 D7 M3 F4 V87E18 V5R5	-14.200	10.000	54.900	.000	SREF 2690.0000 S2.FT.
(RBT004)	AXES 66-708 0A13 B10 C5 D7 M3 F4 V87E18 V5R5	-14.200	10.000	54.900	.000	LREF 474.8000 N.
(RBT022)	AXES 66-708 0A13 B10 C5 D7 M3 F4 V87E18 V5R5	-14.200	-20.000	54.900	.000	BREF 936.8800 N.
(RBT006)	AXES 66-708 0A13 B10 C5 D7 M3 F4 V87E18 V5R5	-14.200	-40.000	54.900	.000	XMRP 1076.4800 N.
						YMRP .0000 N.
						ZMRP 400.0000 N.
						SCALE .0150 SCALE

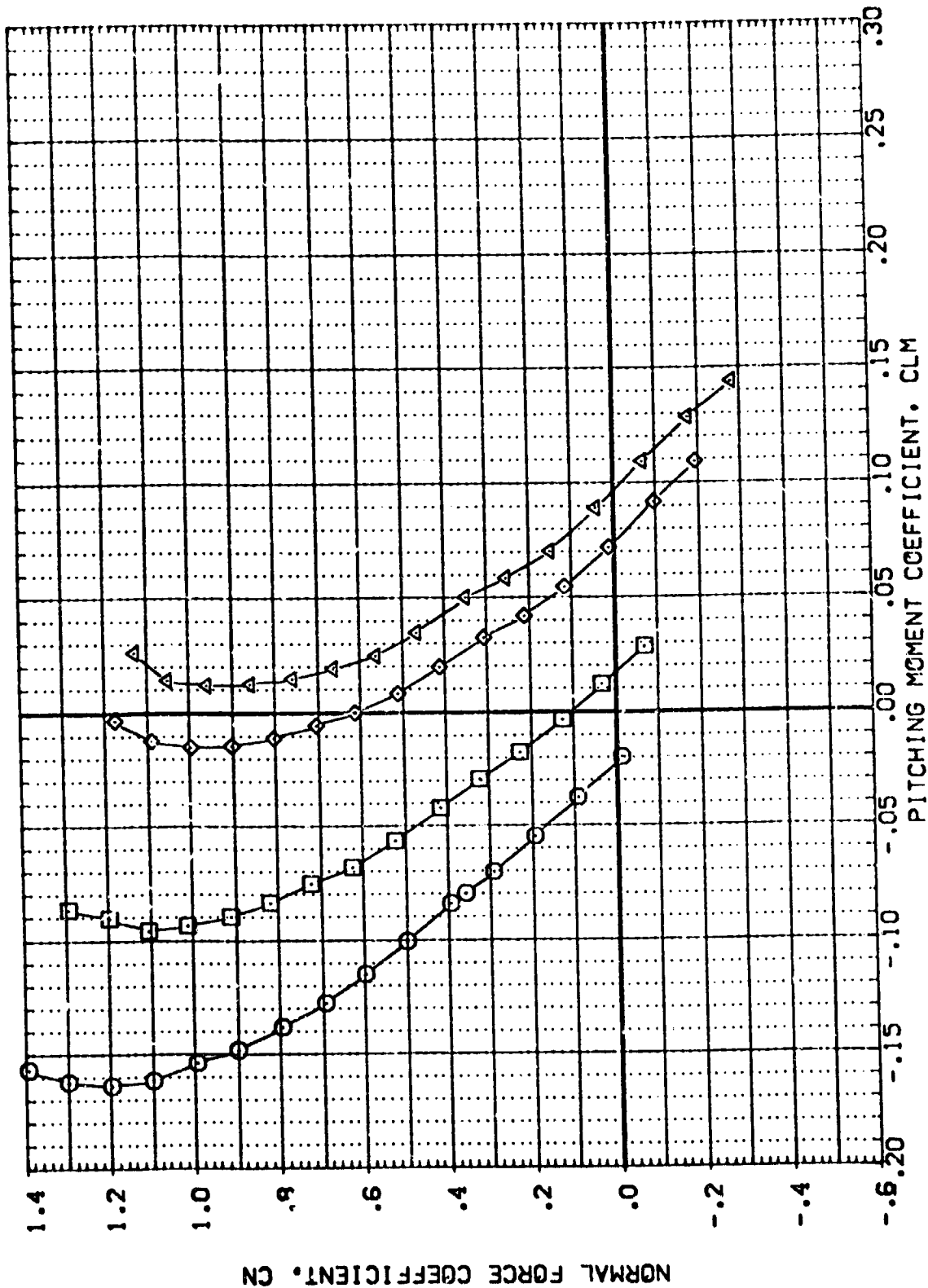


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDER	REFERENCE INFORMATION
[RBT005]	AVES 66-706 DA43 B10 CS D7 F4 V87E18 V5K5	-14.200	10.000	54.900	.000	SREF 2690.0000 50. FT.
[RBT004]	AVES 66-706 DA43 B10 CS D7 F4 V87E18 V5K5	-14.200	10.000	54.900	.000	LREF 474.8000 14.00
[RBT022]	AVES 66-706 DA43 B10 CS D7 F4 V87E18 V5K5	-14.200	-20.000	54.900	.000	BREF 936.6800 12.00
[RBT006]	AVES 66-706 DA43 B10 CS D7 F4 V87E18 V5K5	-14.200	-40.000	54.900	.000	YPRP 1076.4800 12.00
						ZPRP 400.0000 12.00
						SCALE .0150 SCALE

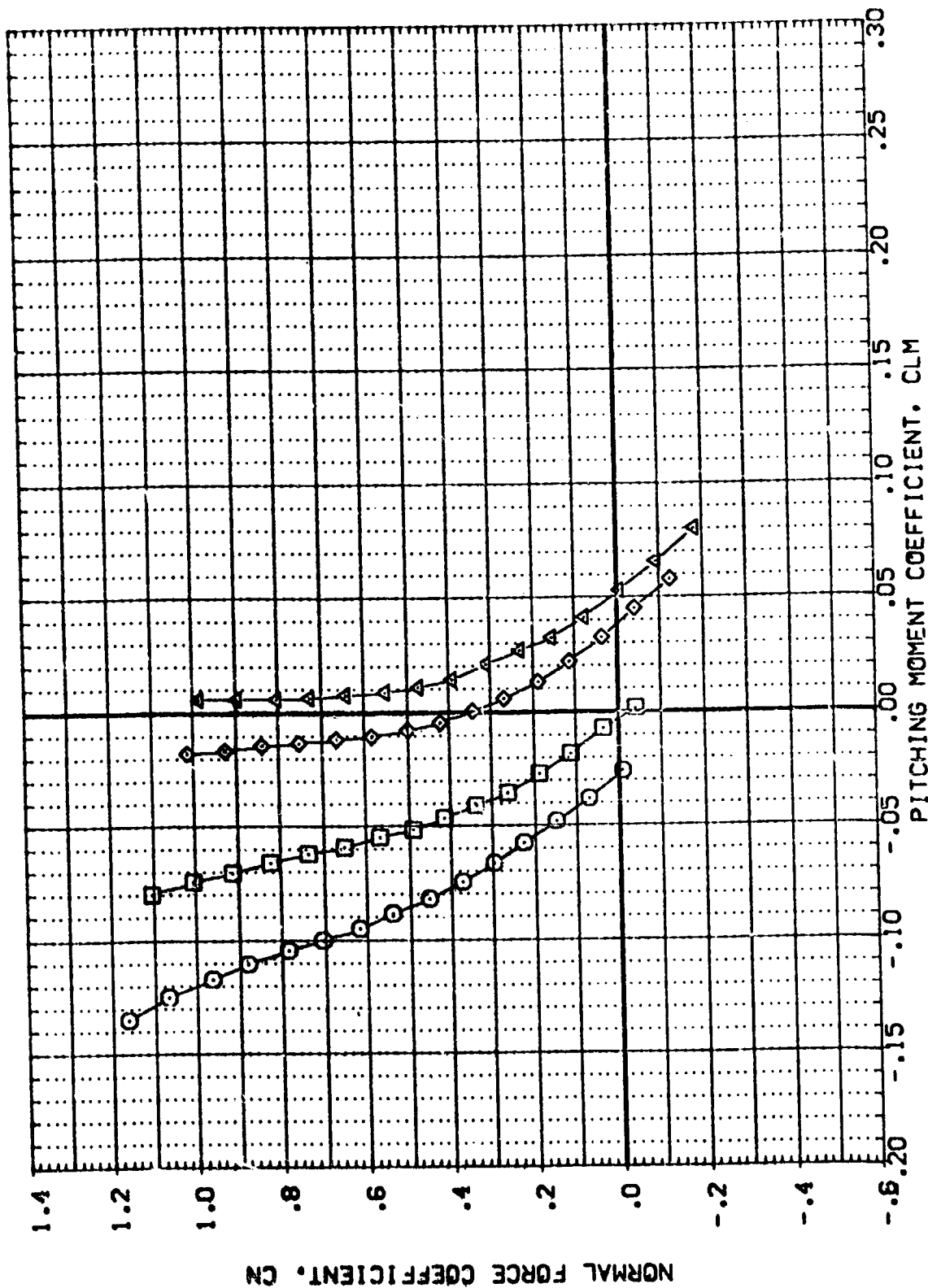


FIG. 7 ELEVONS DEFLECTED
[E]MACH = 2.00



DATA SET SYMBOL: \square \times

CONFIGURATION DESCRIPTION:
 AVE'S 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS
 AVE'S 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS
 AVE'S 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS
 DATA NOT AVAILABLE

BOEFLP ELEVON SPOBRK RUDDER REFERENCE INFORMATION SQ. FT.
 -14.200 10.000 54.900 .000 SREF 2690.0000
 -14.200 0.000 54.900 .000 LREF 474.8000
 -14.200 -20.000 54.900 .000 MREF 536.6800
 -14.200 -40.000 54.900 .000 XREF 1076.1800
 YREF .0000
 ZREF 400.0000
 SCALE .0150

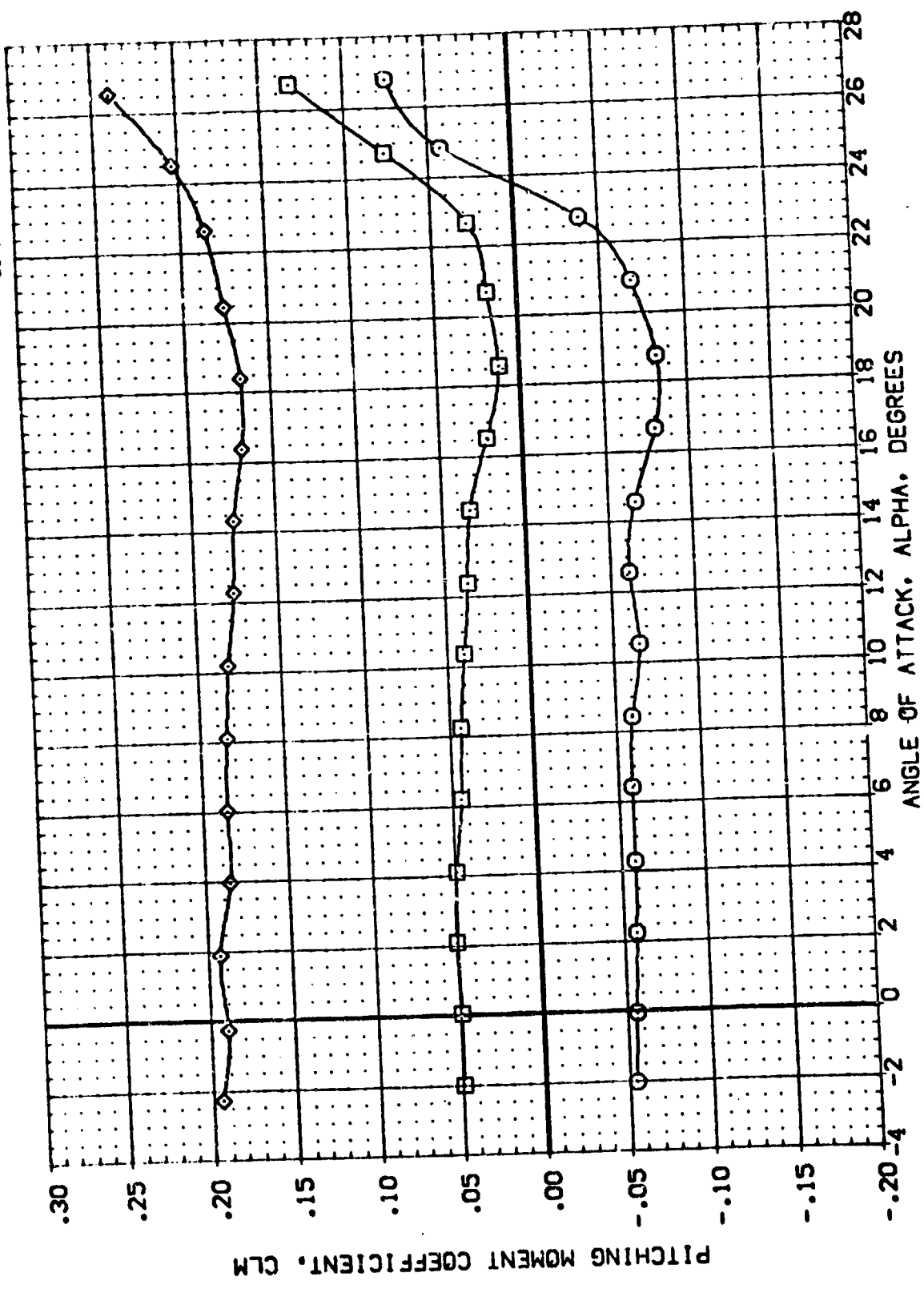


FIG. 7 ELECONS DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOTS/LP	ELEVON	SPEED/BRK	RUDDER	REFERENCE INFORMATION
(RBT005)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	SREF 2690.0000 50.FT.
(RBT004)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	LREF 474.8000 10.FT.
(RBT002)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-20.000	54.900	.000	BREF 936.6800 10.FT.
(RBT001)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-40.000	54.900	.000	XREF 1076.4000 10.FT.
						YREF 100.0000 10.FT.
						ZREF 100.0000 10.FT.
						SCALE 0.0150

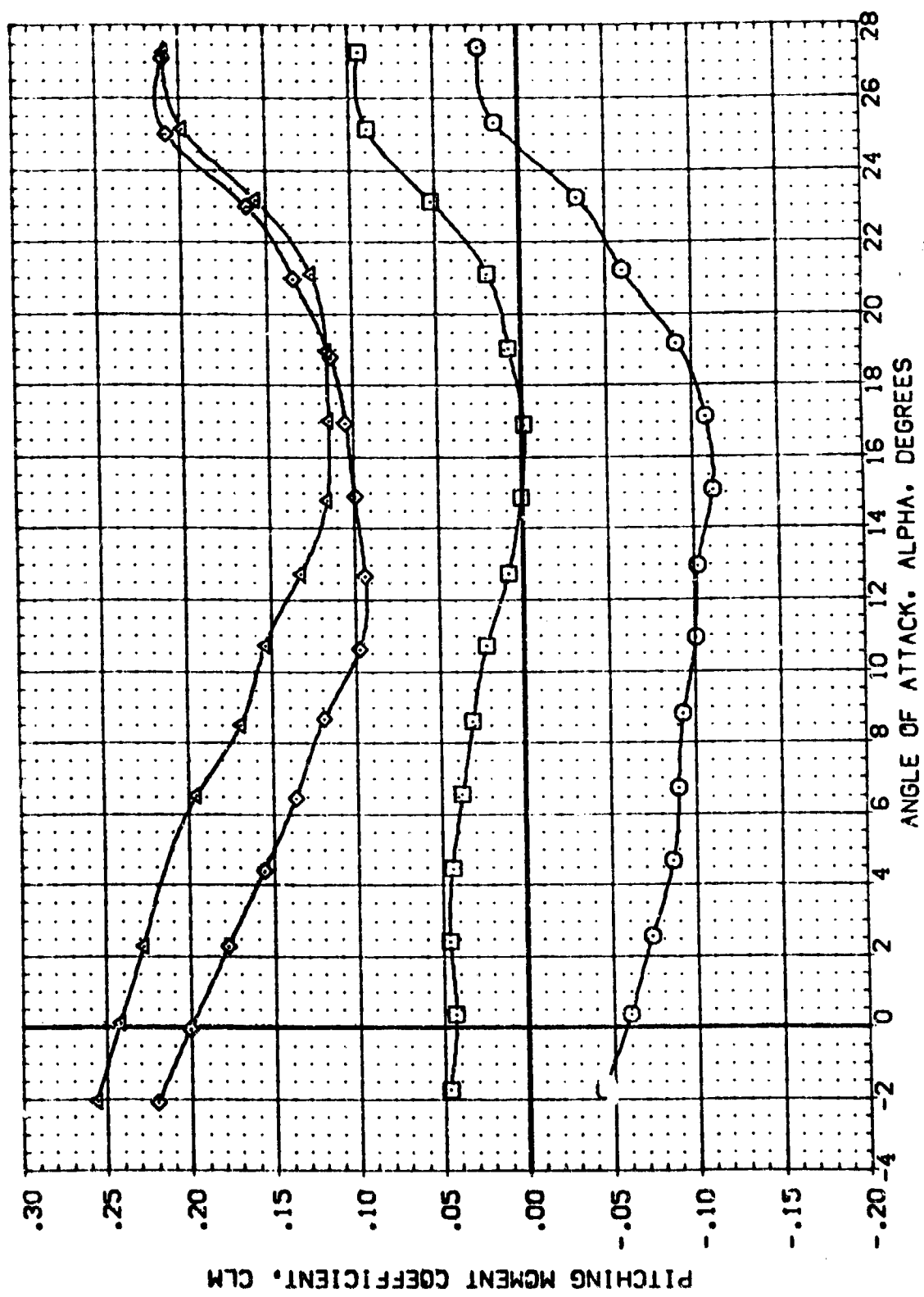


FIG. 7 ELEVONS DEFLECTED

(B)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(RBT005)	A-ES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	10.000	54.900	.000	SREF	2690.0000 SQ.FT.
(RBT004)	A-ES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	10.000	54.900	.000	LREF	474.8000 N.
(RBT022)	A-ES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-20.000	54.900	.000	BREF	936.6800 N.
(RBT006)	A-ES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5RS	-14.200	-40.000	54.900	.000	XMREF	1076.4800 N.
					.000	YMREF	100.0000 N.
					.000	ZMREF	100.0000 N.
					.0150	SCALE	

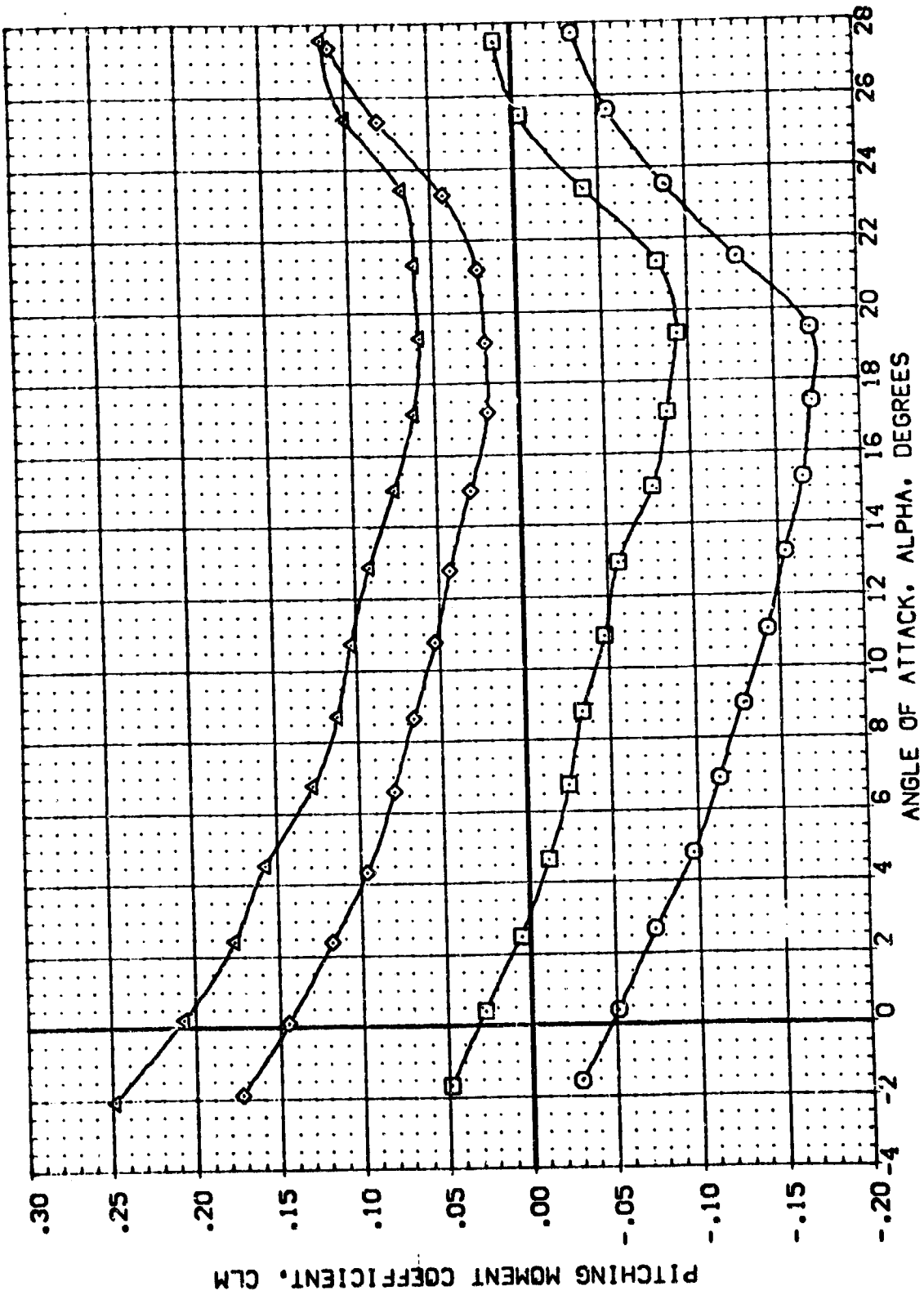


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(H8T005)	AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	SREF 2590.0000 SQ.FT.
(R8T024)	AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(R8T022)	AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-20.000	54.900	.000	BREF 936.5800
(R3T026)	AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-40.000	54.900	.000	XREF 1076.1800
						YREF .0000
						ZREF 400.0000
						SCALE .0150

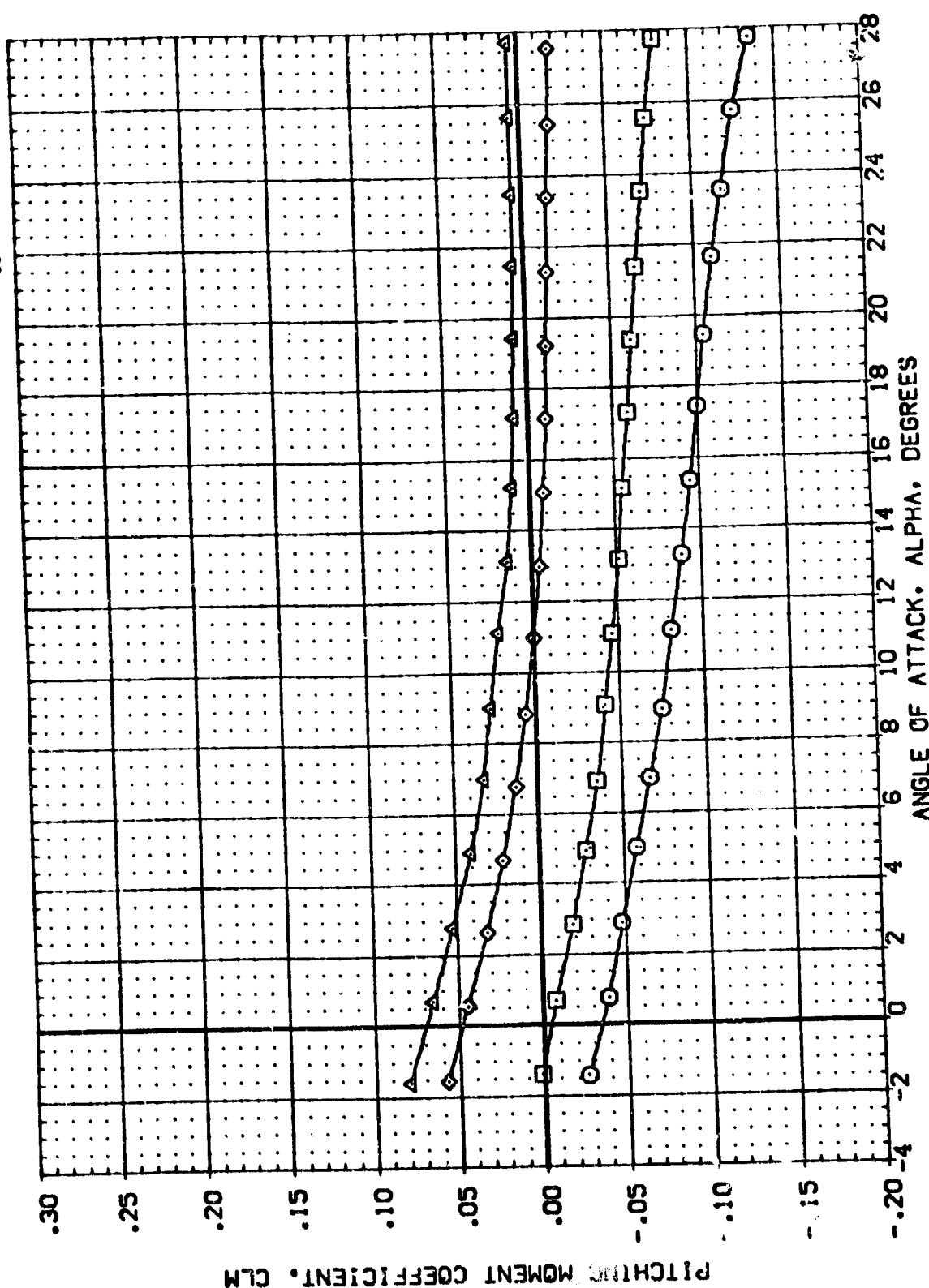


FIG. 7 ELEVONS DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL: (88T025) (88T024) (88T022) (88T026)

CONFIGURATION DESCRIPTION: AYES 66-706 CM43 B:0 CS D7 M3 F4 V87E18 V5P8
 AYES 66-706 CM43 B:0 CS D7 M3 F4 V87E18 V5P8
 AYES 66-706 CM43 B:0 CS D7 M3 F4 V87E18 V5P8
 DATA NOT AVAILABLE

BODTLP ELEVON SPDRBK RODER REFERENCE INFORMATION

BODTLP	ELEVON	SPDRBK	RODER	SREF	2690.0000	50.0000
-14.200	10.000	54.900	.000	SREF	2690.0000	50.0000
-14.200	10.000	54.900	.000	LREF	474.8000	11.0000
-14.200	10.000	54.900	.000	BREF	936.6800	11.0000
-14.200	10.000	54.900	.000	XREF	1103.2400	11.0000
-14.200	10.000	54.900	.000	YREF	400.0000	11.0000
-14.200	10.000	54.900	.000	ZREF	400.0000	11.0000
-14.200	10.000	54.900	.000	SCALE	400.0000	11.0000

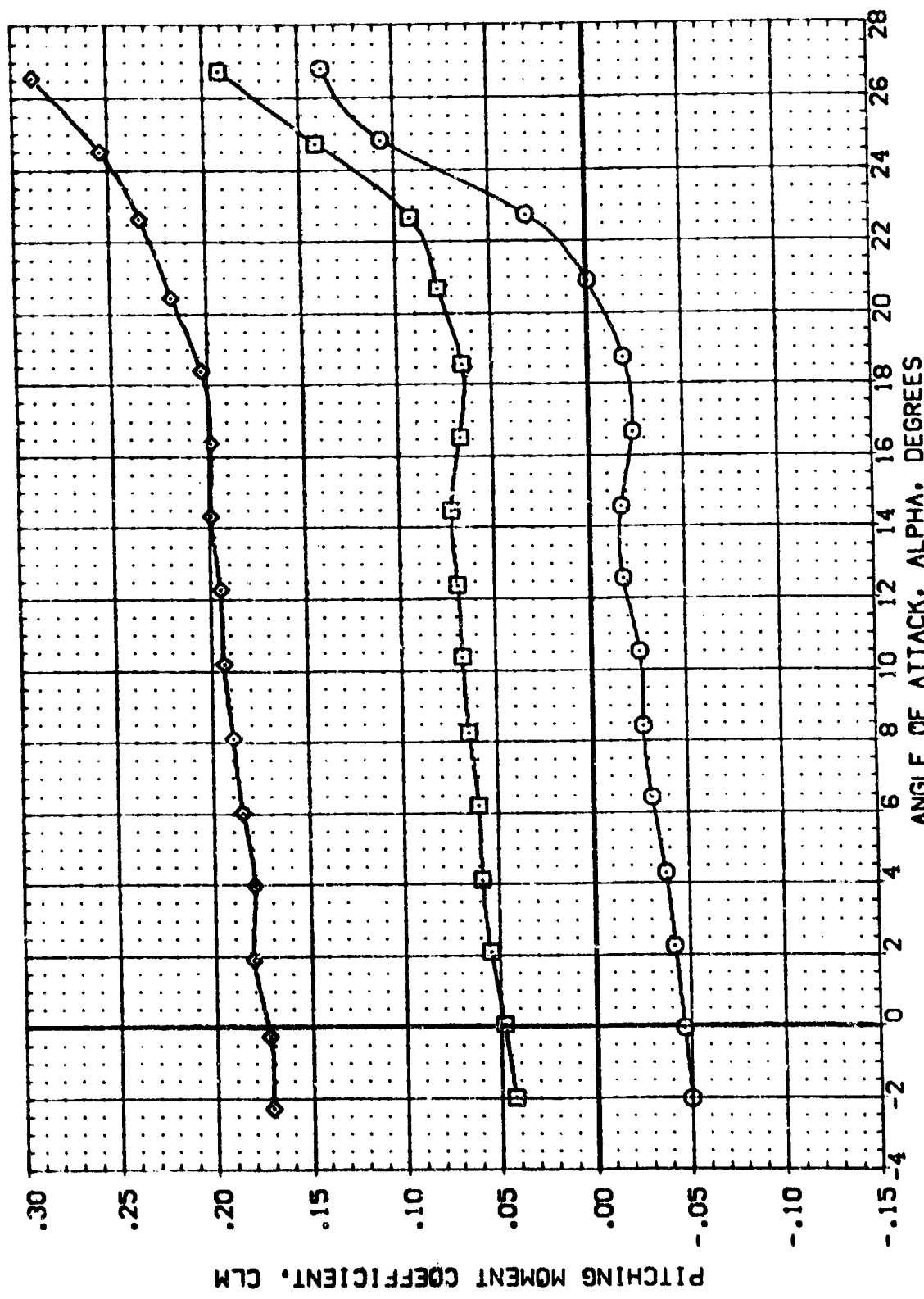


FIG. 7 ELEVONS DEFLECTED (AFT C.G.)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(BBT025)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2630.0000 SQ.FT.
(BBT024)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(BBT022)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(BBT026)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	YREF 1103.2400 IN.
						ZREF 400.0000 IN.
						SCALE .0150

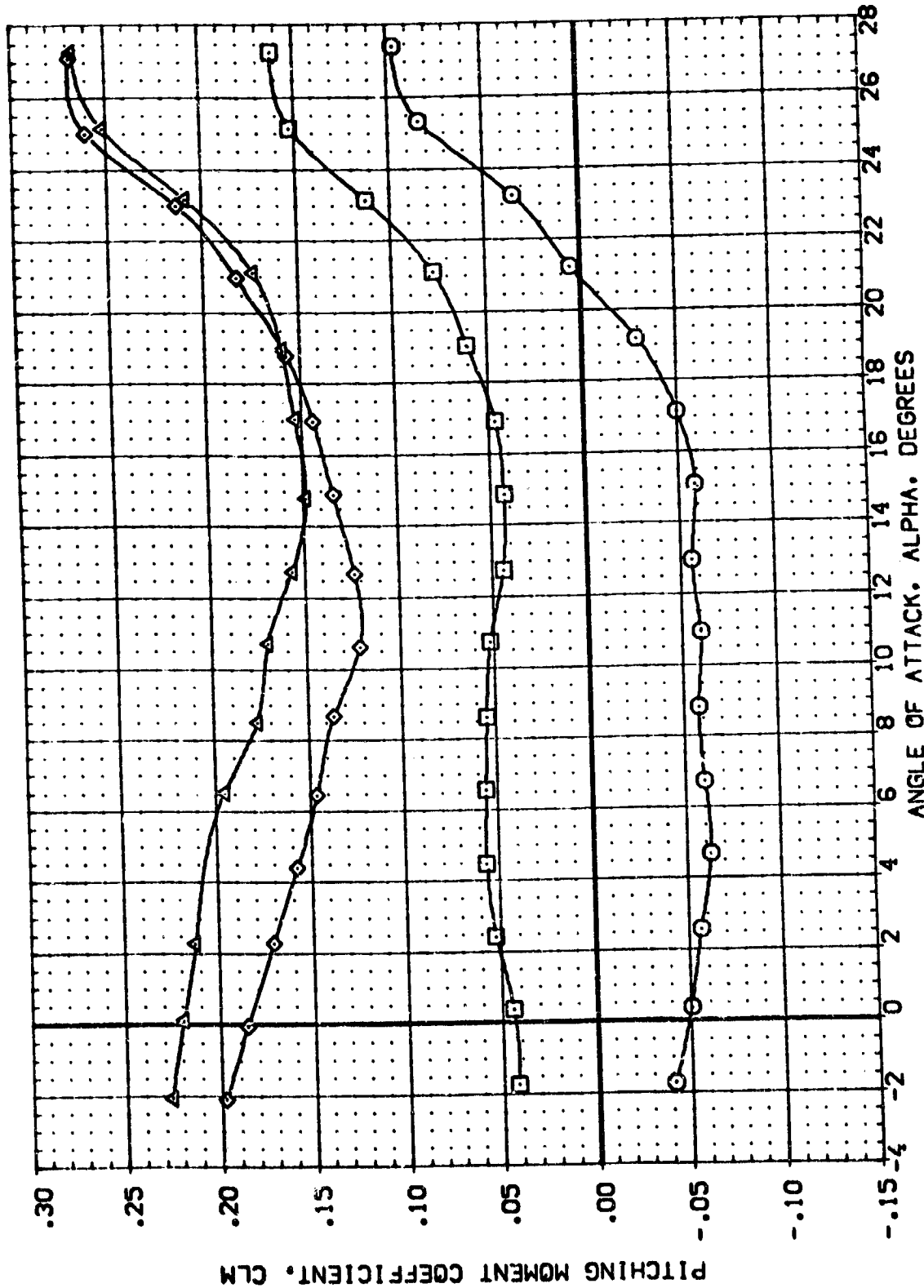


FIG. 7 ELEVONS DEFLECTED (AFT C.G.)

(B)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ROOT LP	ELEVON	SPDRX	RUDDER	REFERENCE INFORMATION
(88T005)	A-ES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(88T004)	A-ES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(88T022)	A-ES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(88T005)	A-ES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	-40.000	54.900	.000	XMRP 1103.2400 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

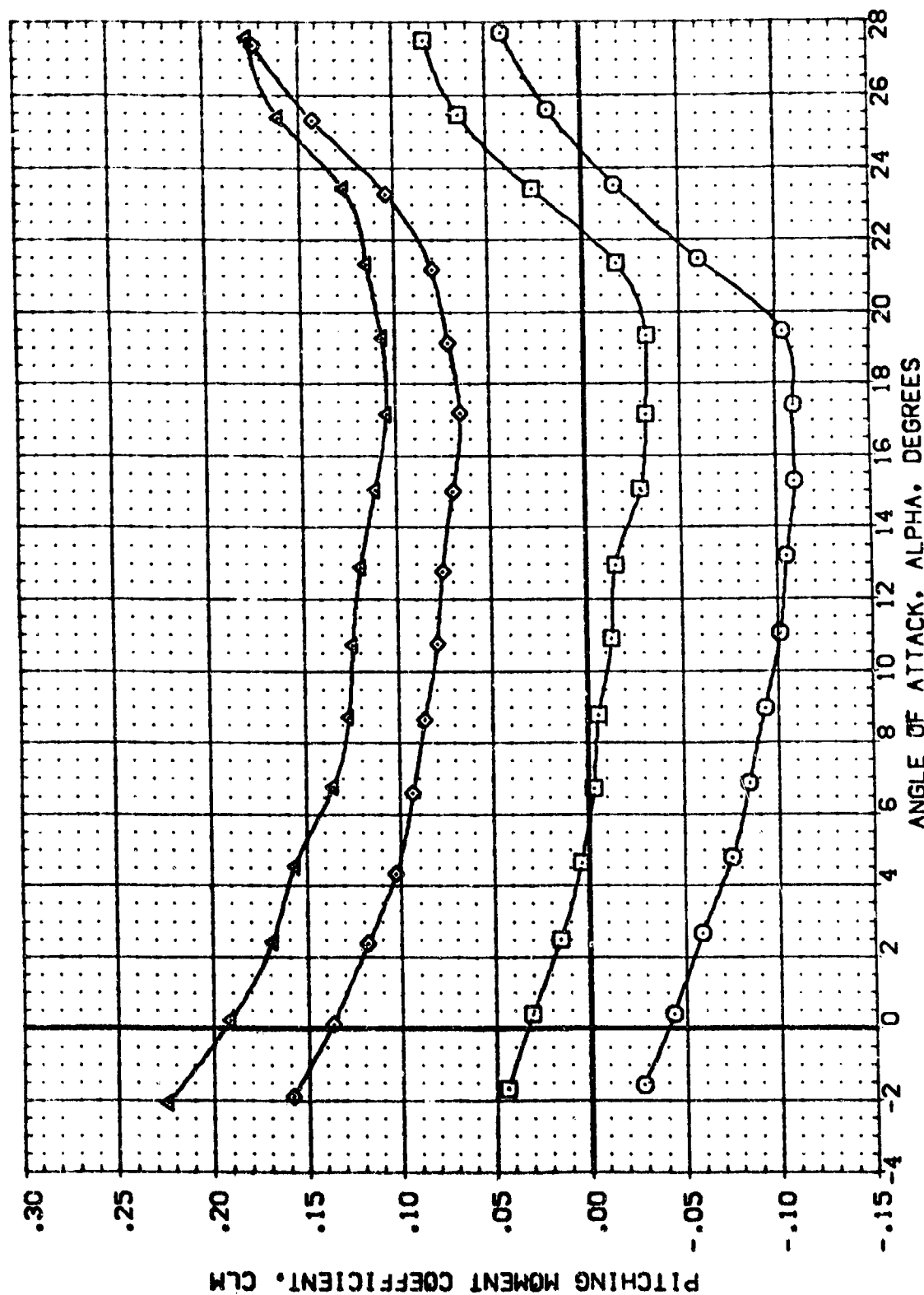


FIG. 7 ELEVONS DEFLECTED (AFT C.G.)

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RLODER	REFERENCE INFORMATION	
(BBT005)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF	2630.0000
(BBT004)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	LREF	474.8000
(BBT022)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF	936.6800
(BBT026)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XREF	1103.2400
						YREF	0.0000
						ZREF	400.0000
						SCALE	.0150
							50.FT.

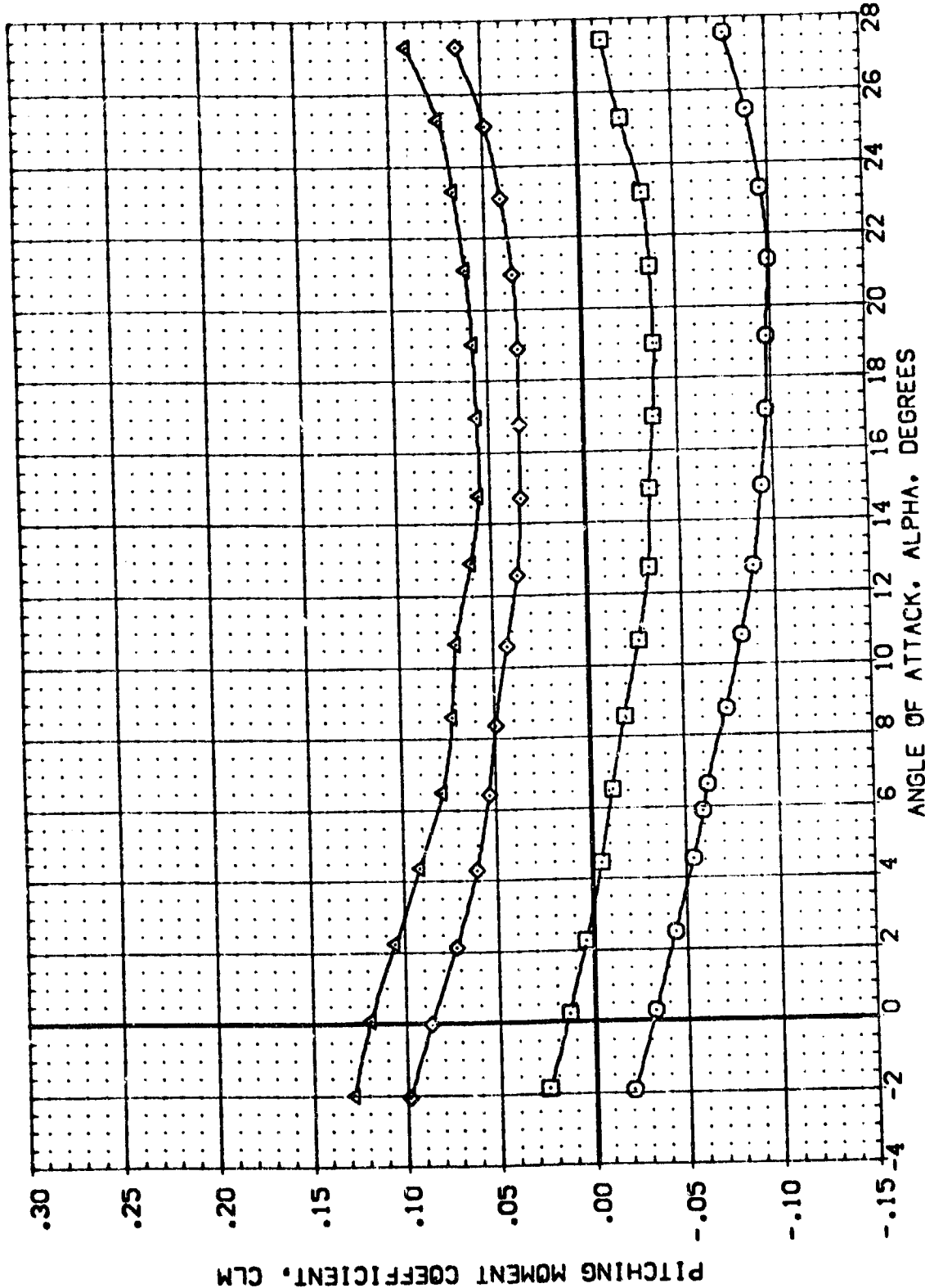


FIG. 7 ELEVONS DEFLECTED (AFT C.G.)

(D)MACH = 1.50

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BOOFLP	ELEVON	SFOBRK	RUDER	REFERENCE INFORMATION
88-005	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SC.FT.
88-004	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000
88-002	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800
88-006	AMES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XMRP 1103.2400
						YMRP .0000
						ZMRP 400.0000
						SCALE .0150

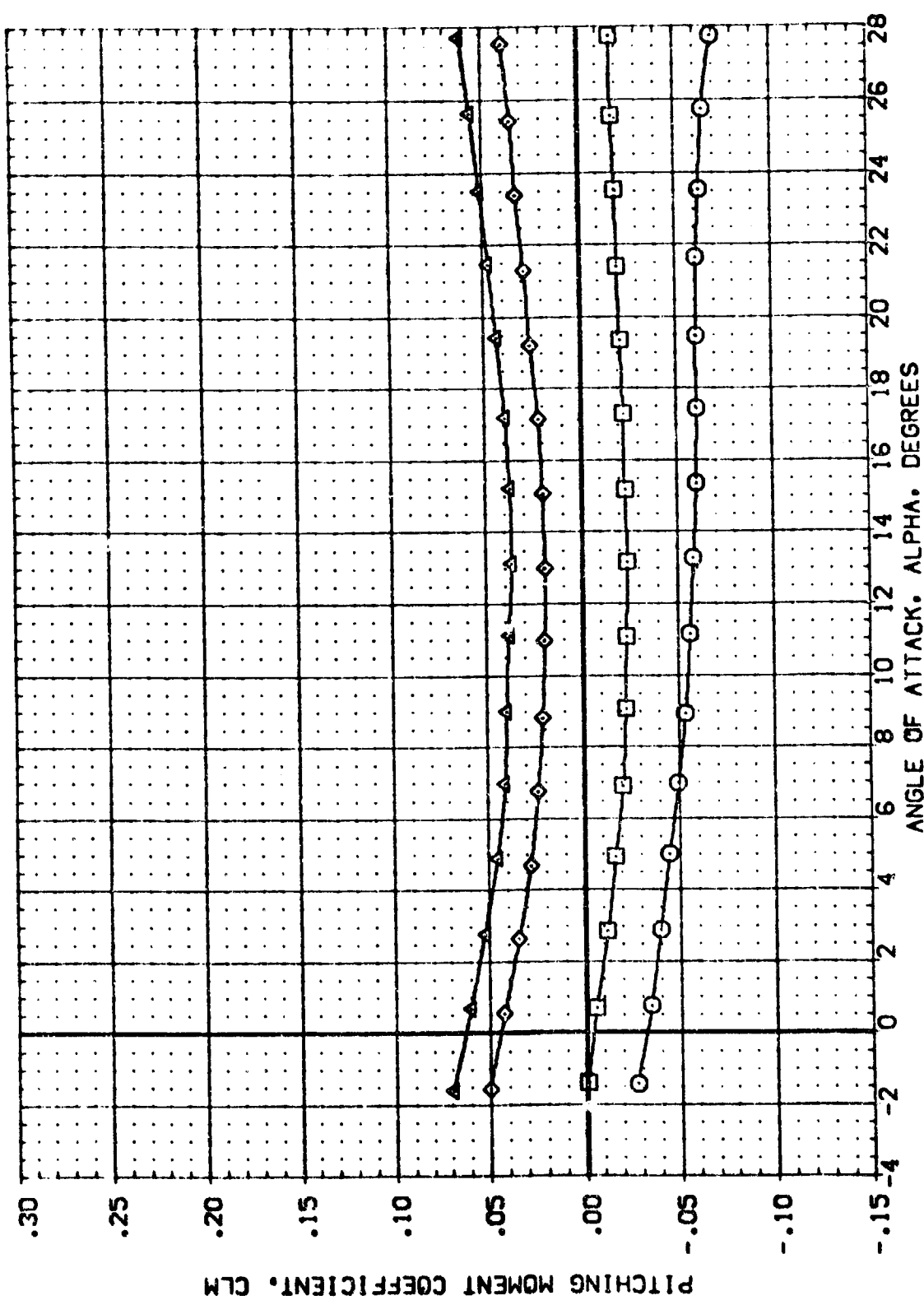


FIG. 7 ELEVONS DEFLECTED (AFT C.G.)

(M)MACH = 2.00

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE	ELEVON	DATASET	REFERENCE INFORMATION		
			BETA	SPDRY	RUDER				SREF	LREF	SREF
□	.000	.600	.000	.000	.000	UBT006	-20.000	UBT022	2690.0000	474.8000	11.22
□	10.000	.000	54.500	UB'006	.000	UB'006	10.000	UB'005	936.5800	1076.4800	11.22
◇	20.000	BCFLP	-14.200	RUDER	.000	UB'004	10.000	UB'005	1076.4800	1076.4800	11.22
									400.0000	400.0000	11.22
									SCALE	SCALE	SCALE
									.0150	.0150	.0150

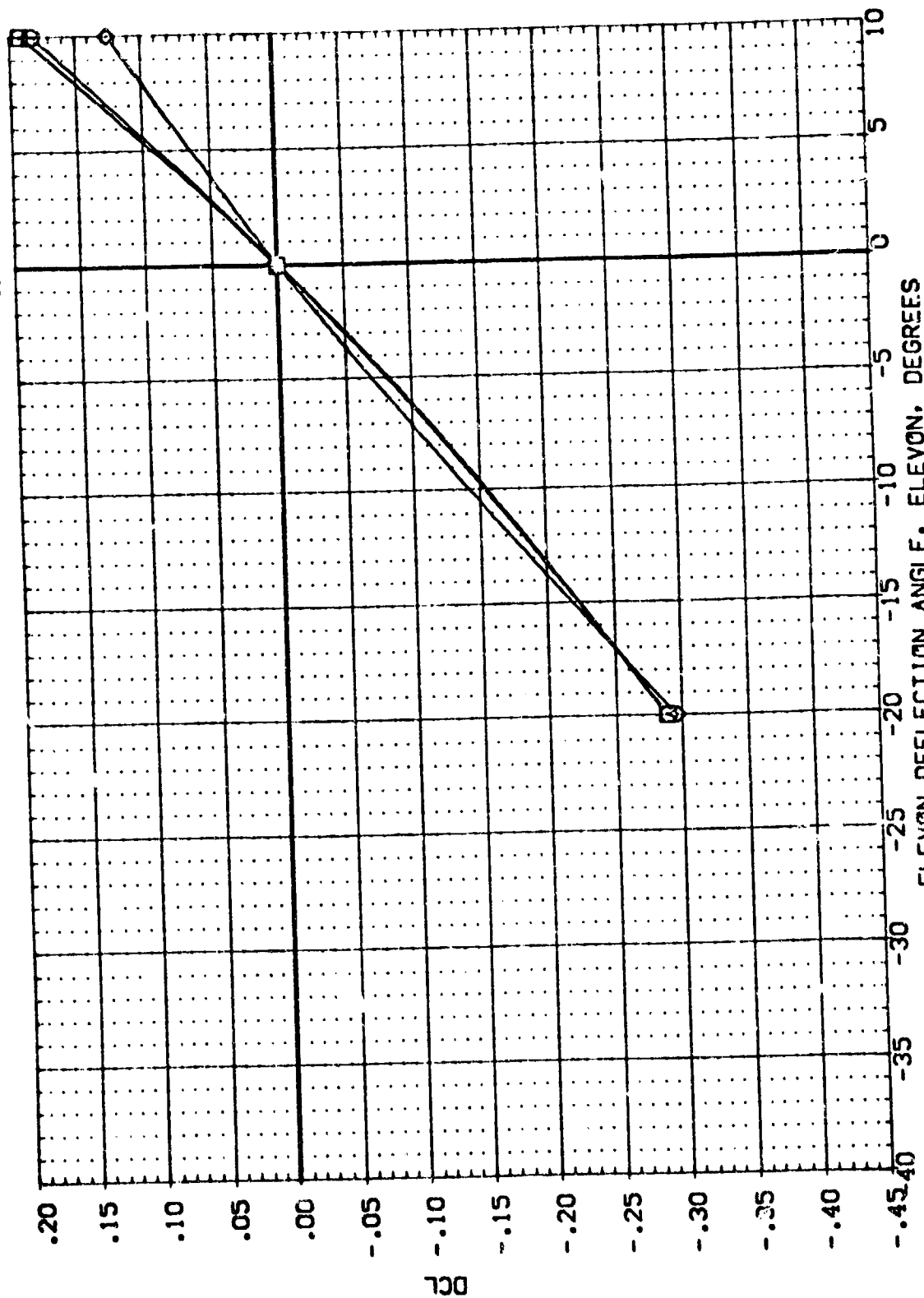


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B1C C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION		
	ALPHA	MACH	BETA	.000 DATASET	ELEVON	SREF	2690.000	52.000
□	.000	.000	.000	54.900 UBT006	-20.000	LREF	477.800	N
○	10.000	.000	SPD9M	.000 UBT004	10.000	EREF	936.680	N
◇	20.000	BCCFLP	PJDER			XREF	1076.480	N
						YREF	0.000	N
						ZREF	400.000	N
						SCALE	.0150	SCALE

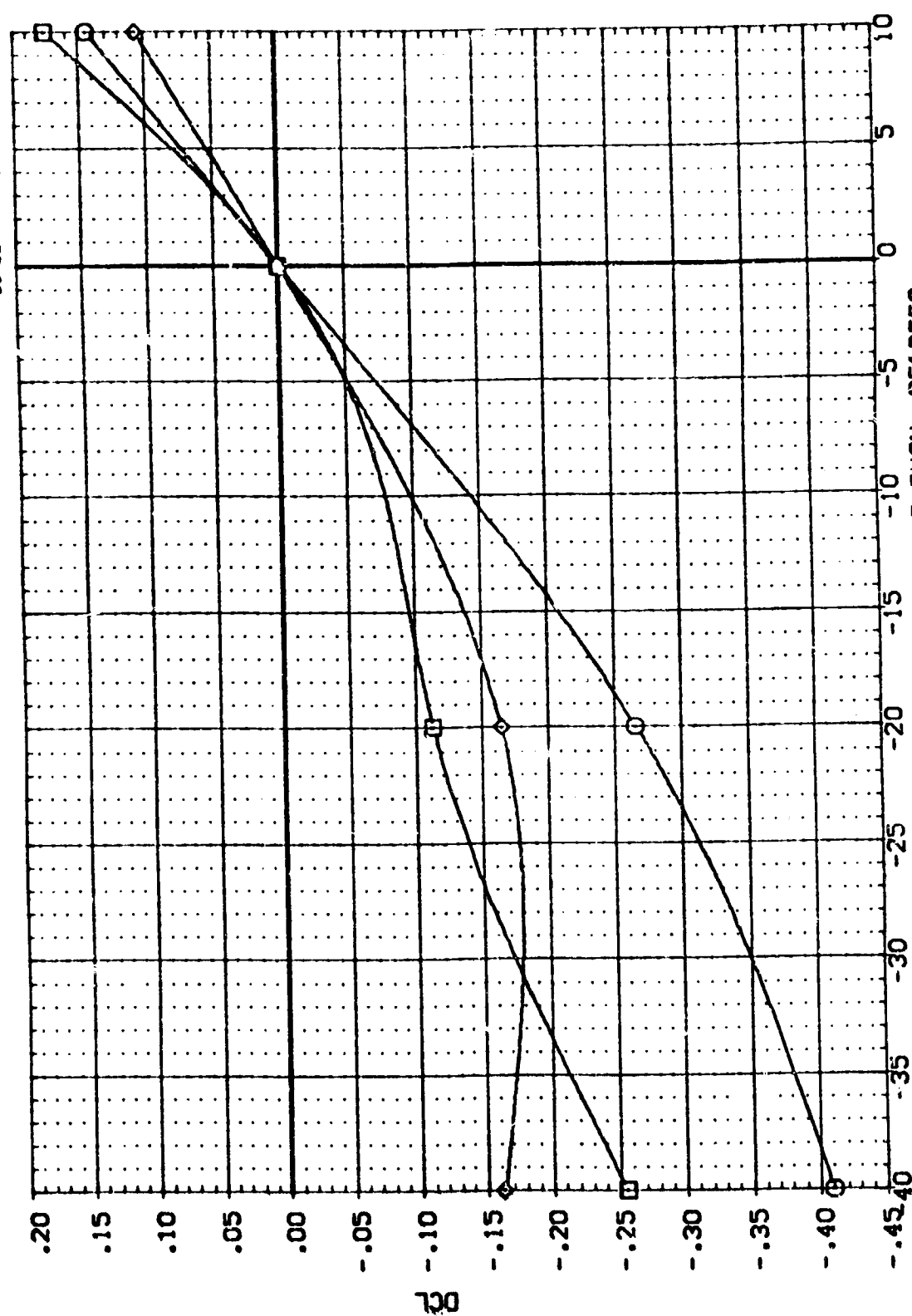


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	ELEVON	DATASET	ELEVON	SC.F.T.
□	.000		1.500	.000	UBT022	-20.000	2690.0000
◇	10.000	AILRON	.000	54.900	UBT005	10.000	474.8000
◇	20.000	BCDFLP	-14.200	.000	UBT004	10.000	536.6800
							1076.4800
							400.0000
							400.0000
							SCALE
							.0150

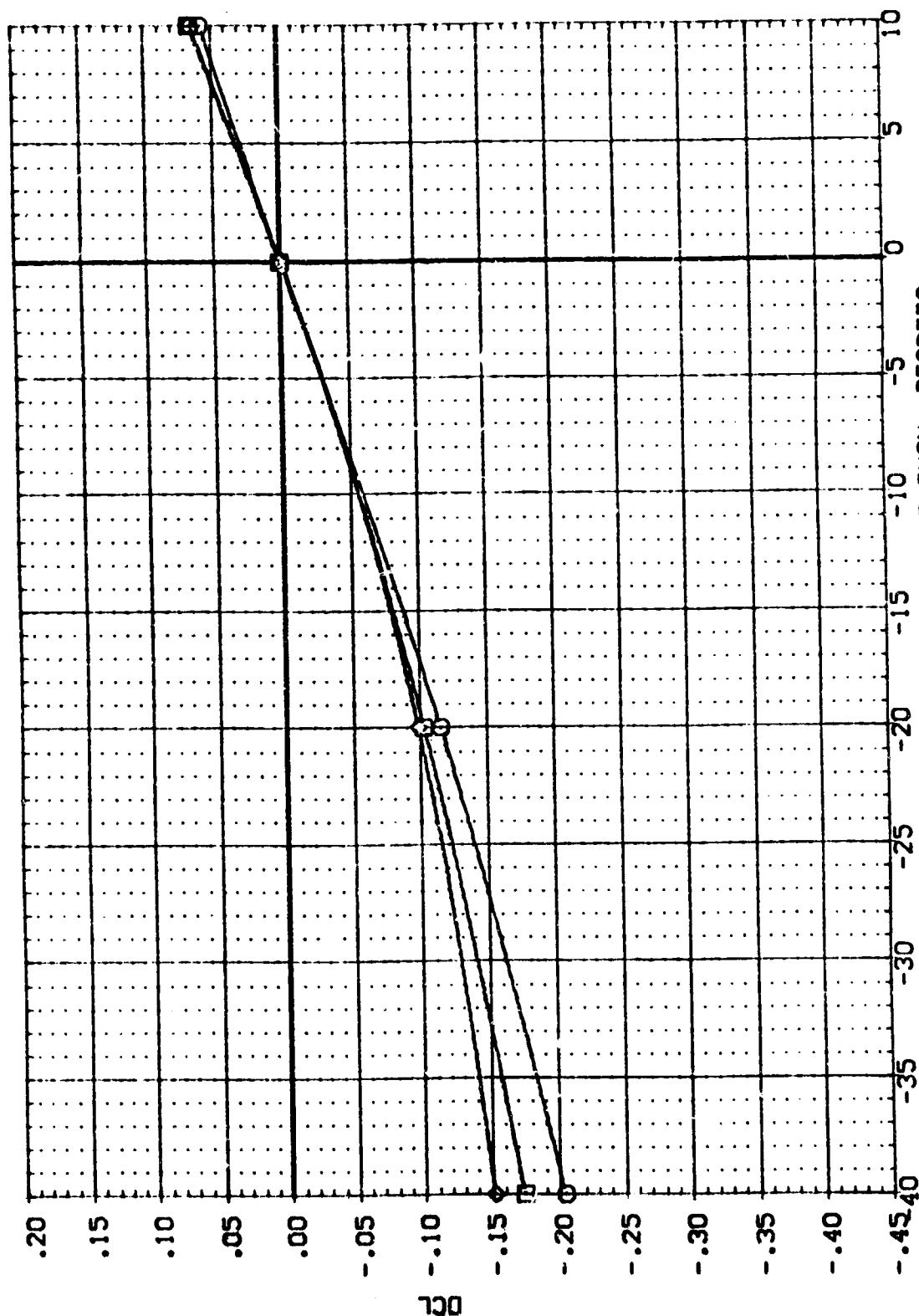


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (U8T006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	DATASET	ELEVON	REFERENCE INFORMATION
○	.000		BETA					SREF 2690.0000
□	10.000	A1LRN	.000	.000	-20.000	U8T022	10.000	LREF 474.8000
◇	20.000	B00FLP	-14.200	.000	10.000	U8T005		TREF 936.6800
			RUDDER					XPRP 1076.1800
								YPRP .0000
								ZPRP .0000
								SCALE 400.0000
								.0150

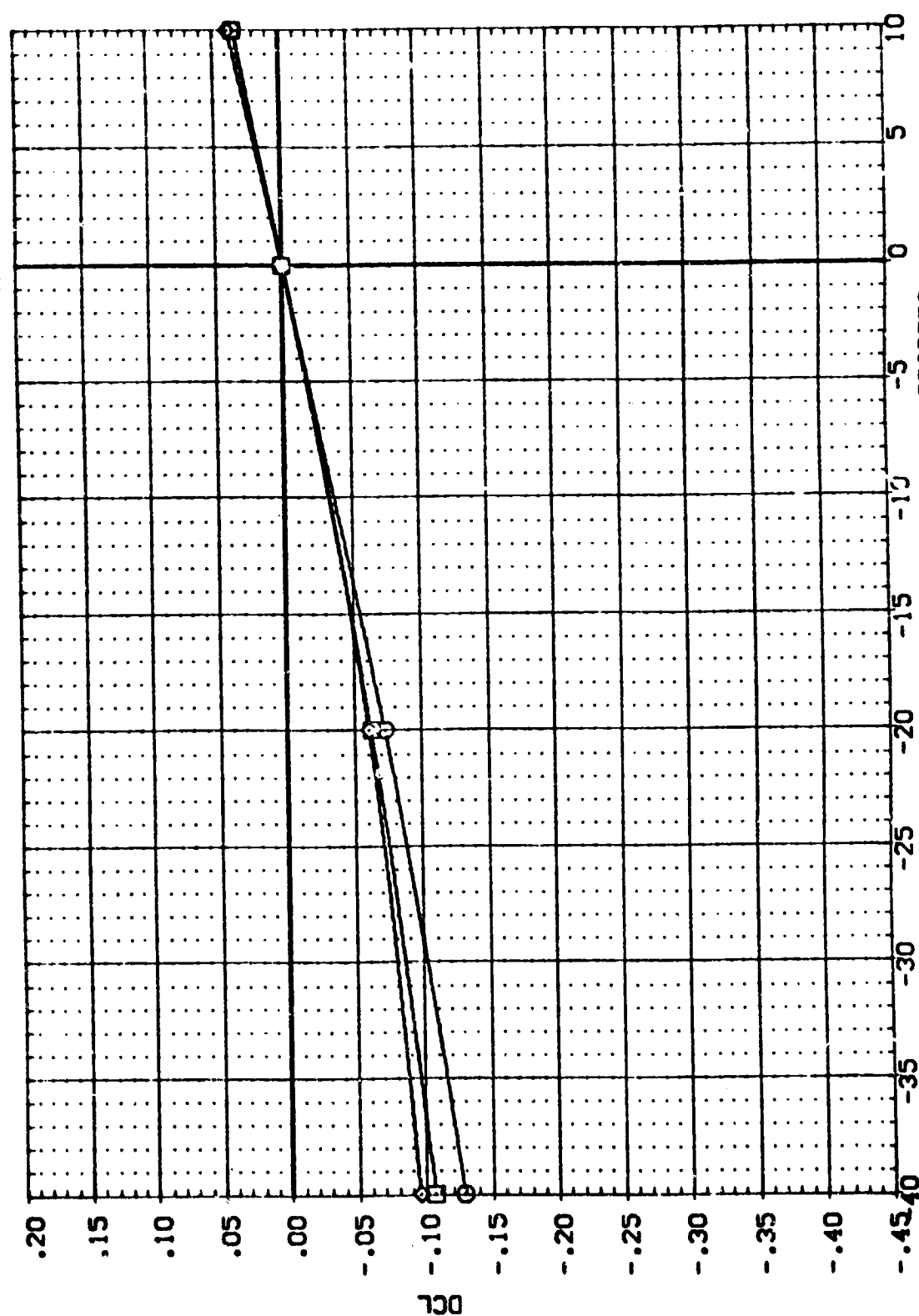


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 CA43 B1C C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		ELEVON	SREF	REFERENCE INFORMATION	
□	.000	.000	.000	BETA	.000	UBT006	-20.000	474.8000	IN:	2630.0000
□	10.000	.000	54.900	SPODRY	40.000	UBT006	10.000	930.6800	IN:	474.8000
□	20.000	-14.200	.000	RUDDER	.000	UBT004		1076.4800	IN:	930.6800
								400.0000	IN:	1076.4800
								400.0000	IN:	400.0000
								SCALE	IN:	SCALE
								.0150		.0150

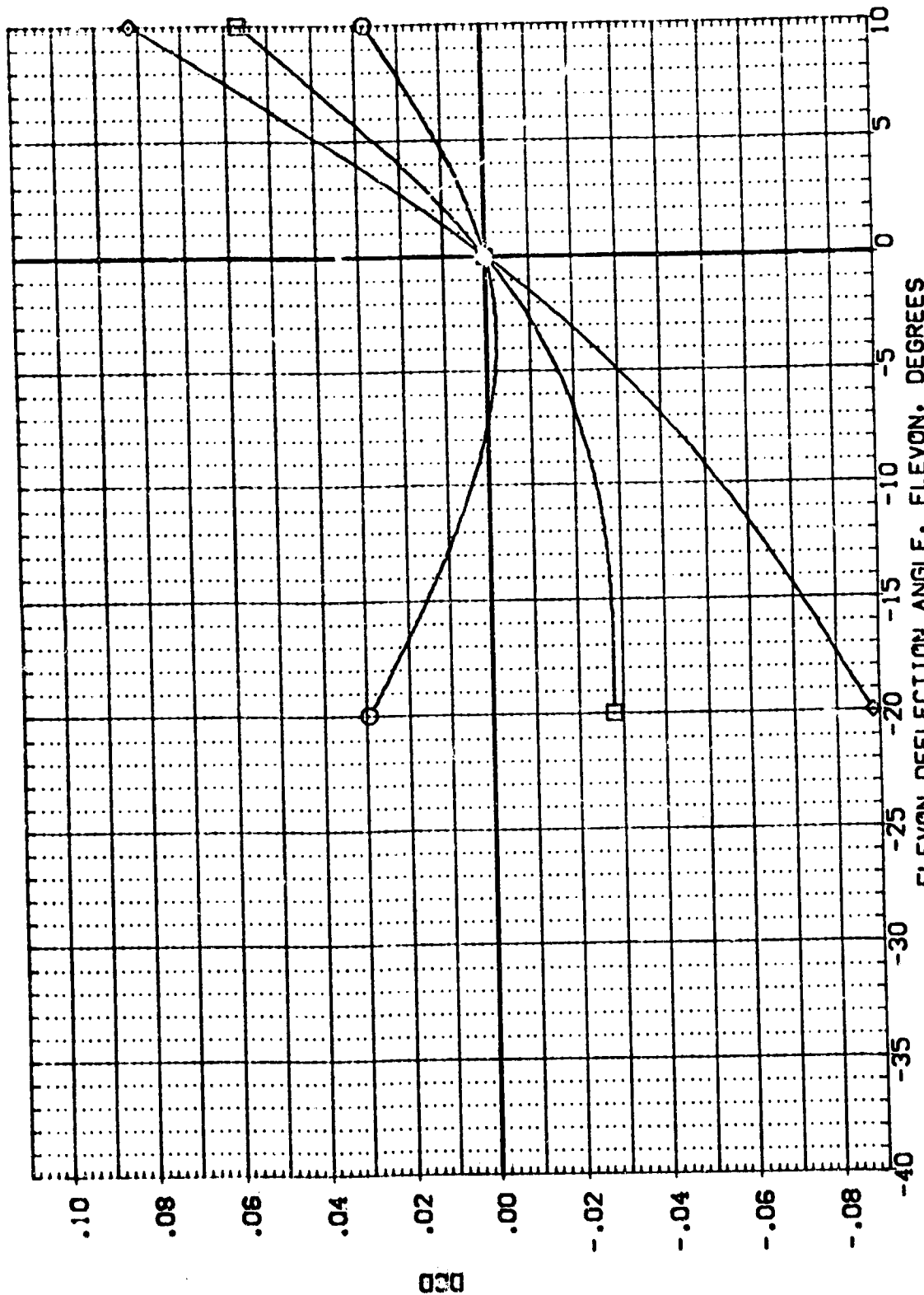


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B10 C5 D7 M3-F4 W87E18 V5R5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	REFERENCE INFORMATION
○	.000	.500	BETA	.000	-20.000	SREF 2650.0000
□	10.000	.000	SPOORX	UBT006	10.000	LREF 474.8000
◇	20.000	-14.200	RDOUER	UBT005	10.000	BREF 936.6800
						XREF 1076.4100
						YREF .0000
						ZREF 400.0000
						SCALE .0150

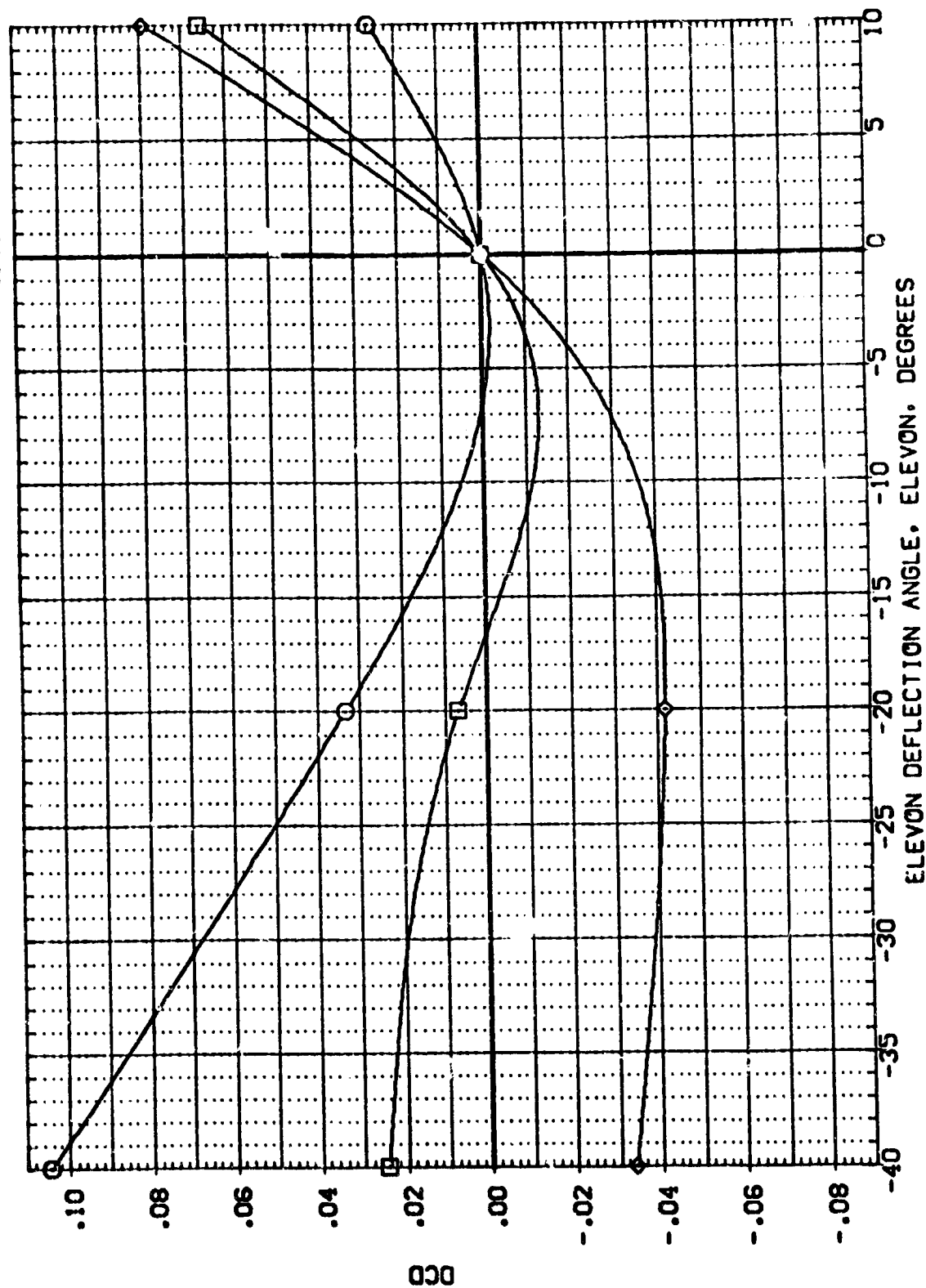


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 CA43 3:0 C5 D7 M3 F4 W87E18 V5RS (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	SREF	REFERENCE INFORMATION
○	.000	1.200	BETA	.000	-20.000	2690.0000	53. FT.
□	10.000	.000	SPSRM	54.900	10.000	474.8000	77.7777
◇	20.000	-14.200	RUDER	.000	10.000	936.6800	77.7777
				.000	10.000	1076.4800	77.7777
						400.0000	SCALE
						400.0000	SCALE
						.0150	SCALE

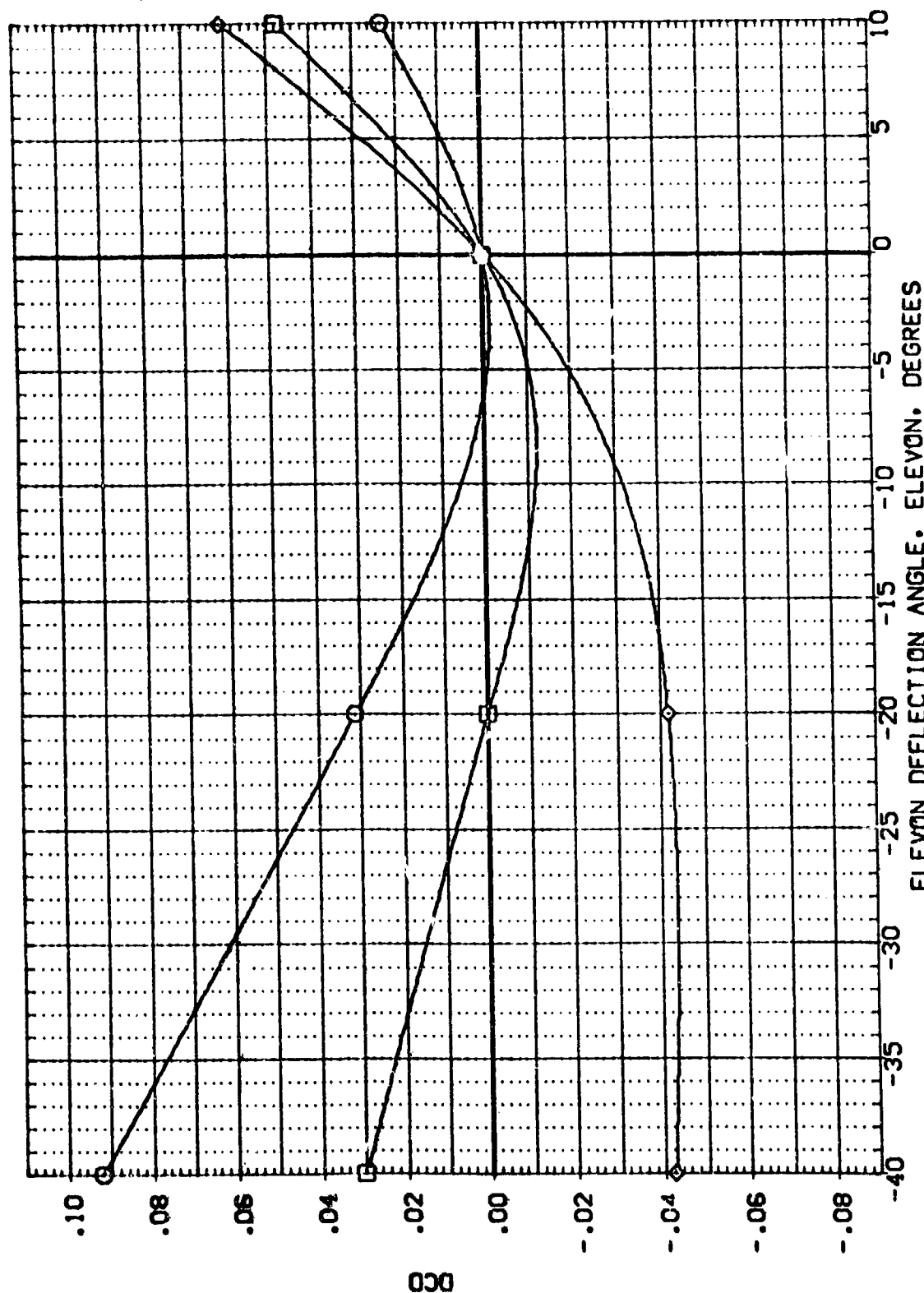


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	DATASET	ELEVON	SREF	SC.FT.
□	.000	1.500	.000	.000	UBT022	LREF	2690.0000
□	10.000	.000	SPDRK	54.900	UBT006	BREF	474.8000
◇	20.000	-14.200	RLODR	.000	UBT005	XREF	936.6800
						YREF	1076.4800
						ZREF	.0000
						ZMRP	400.0000
						SCALE	.0150

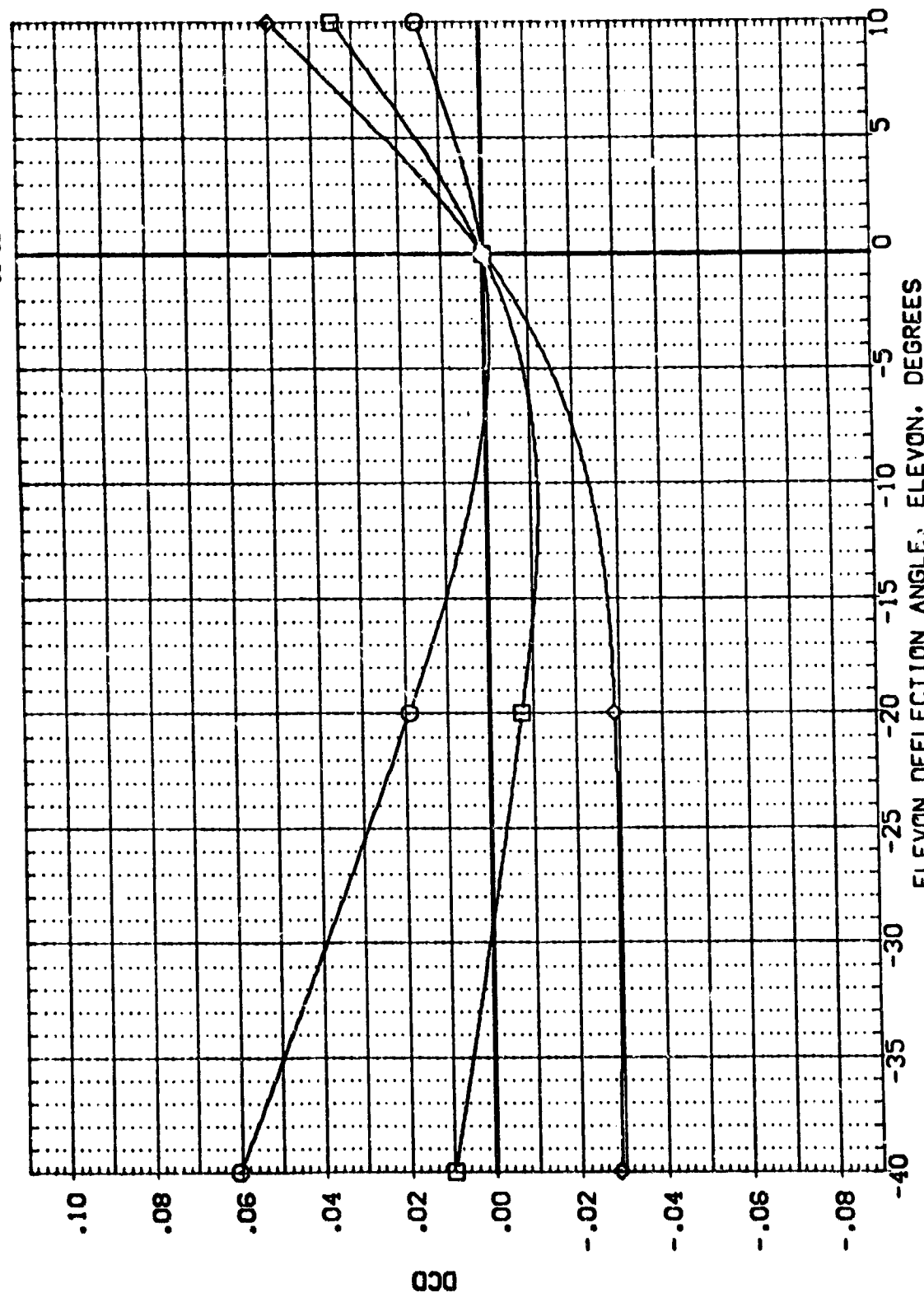


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 GA43 B10 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
	ALPHA	MACH	BETA	SPDRK	ELEVON	DATASET	ELEVON	SREF	REF	SC.F.T.
□	.000	2.000	.000	SPDRK	.000	UBT005	-20.000	474.8000	REF	474.8000
□	10.000	2.000	.000	SPDRK	54.900	UBT005	10.000	936.1800	REF	936.1800
◇	20.000	2.000	.000	RUDER	.000	UBT004	10.000	1076.1800	REF	1076.1800
								400.0000	YMRP	400.0000
								400.0000	ZMRP	400.0000
								.0150	SCALE	.0150

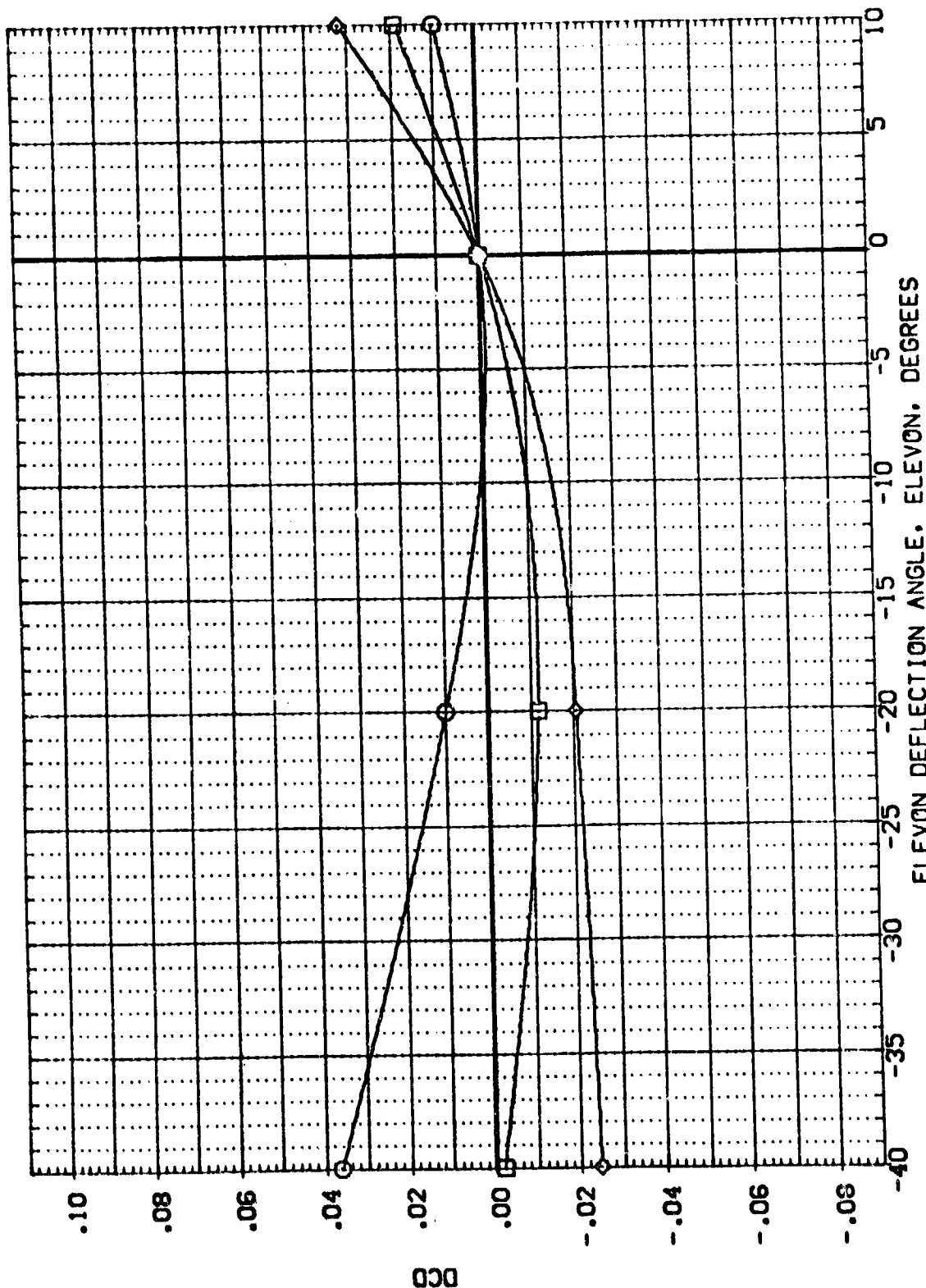


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	DATASET	ELEVON	SREF	REFERENCE INFORMATION
□	.000	A1LRN	.600 BETA	.000 DATASET	-40.000	UBT006	-20.000	LREF	2690.0000
◇	10.000	B00FLP	.000 SPDRK	54.900 DATASET	.000	UBT004	10.000	SREF	474.8000
	20.000		-14.200 RLODER	.000 DATASET		UBT005		XREF	936.6800
								YREF	1076.4800
								ZREF	.0000
								SCALE	400.0000
								SCALE	.0150

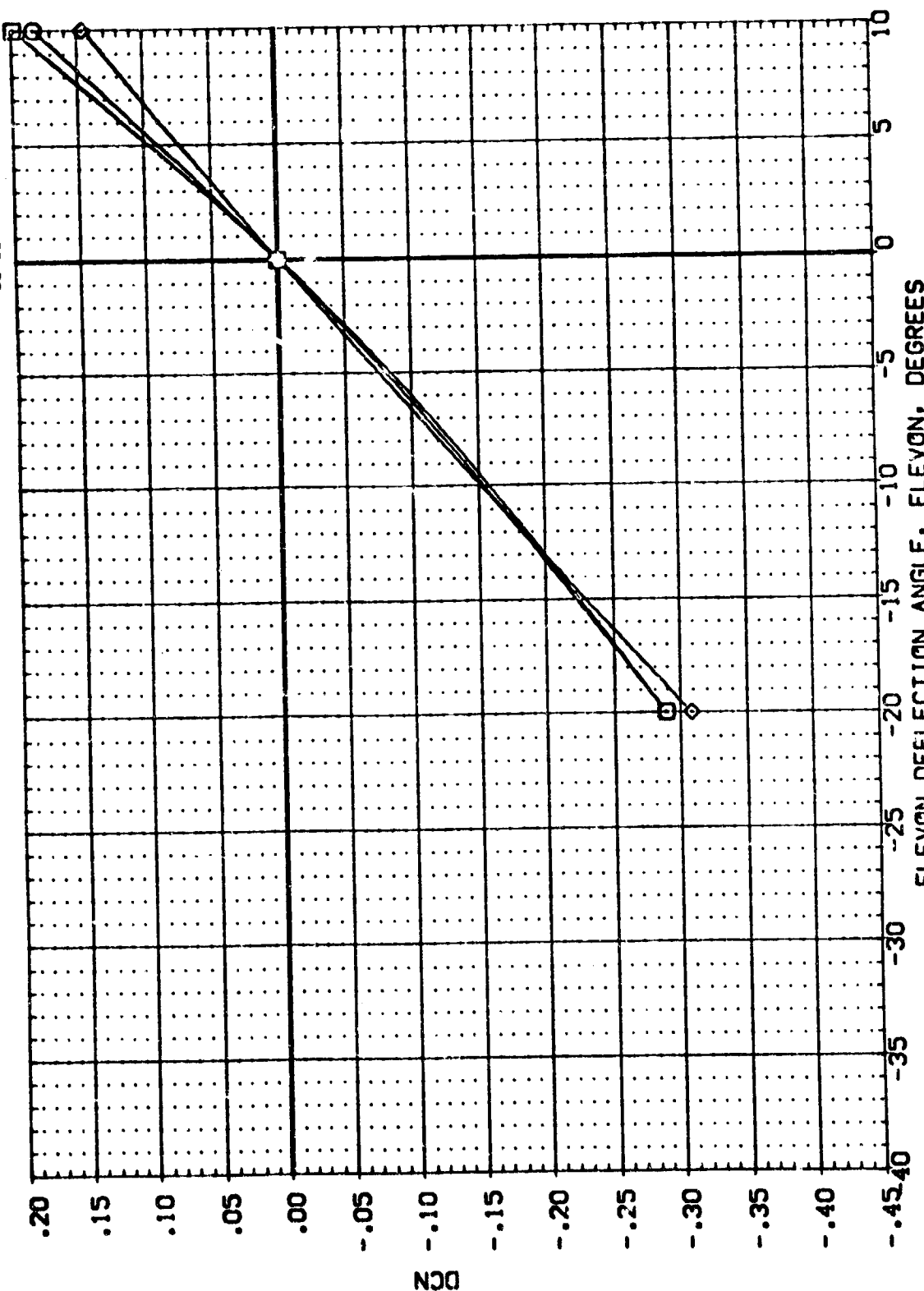


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE			ELEVON	SREF	REFERENCE INFORMATION
○	.000		BETA	.000	DATASET	ELEVON	-20.000	LREF	2690.0000
□	10.000		SPOBRK	54.500	UBT006	-40.000	10.000	BREF	474.8000
◇	20.000		RUDDER	.000	UBT004	.000	10.000	XREF	936.6800
								YREF	1076.4800
								ZREF	400.0000
								SCALE	400.0000
								SCALE	.0150

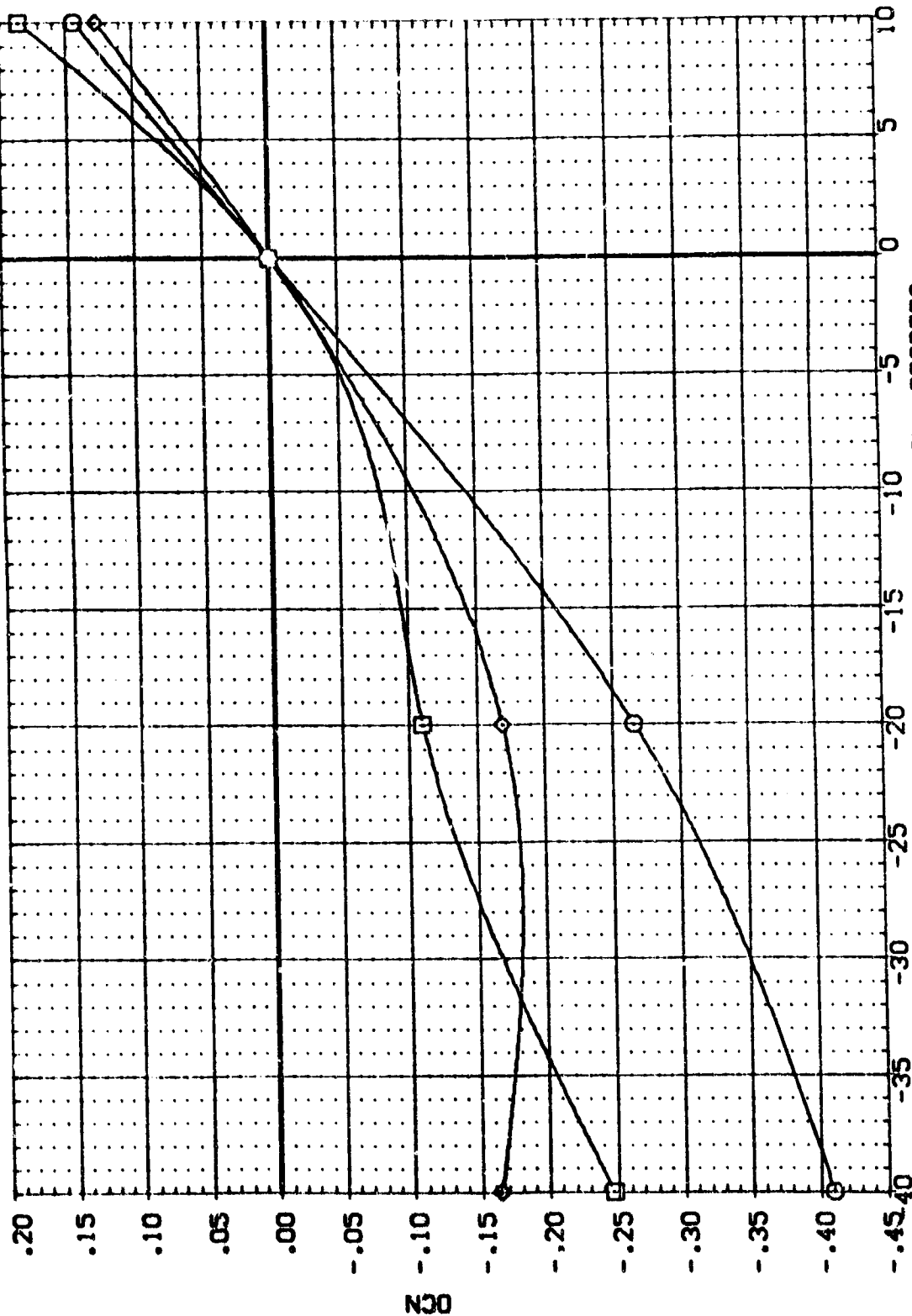


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBL	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION		
	ALPHA	MACH	BETA	SPDRK	ELEVON	UBT006	ELEVON	SREF	SC.FT.
○	.000		1.200	.000	UBT006	.000	-20.000	UBT006	2690.0000
□	10.000	AILRON	.000	SPDRK	UBT006	.000	10.000	UBT006	474.8000
◇	20.000	BOOFLP	-14.200	RUDER	UBT004	.000	10.000	UBT006	936.6800
								UBT006	1076.4800
								UBT006	400.0000
								UBT006	400.0000
								UBT006	.0150

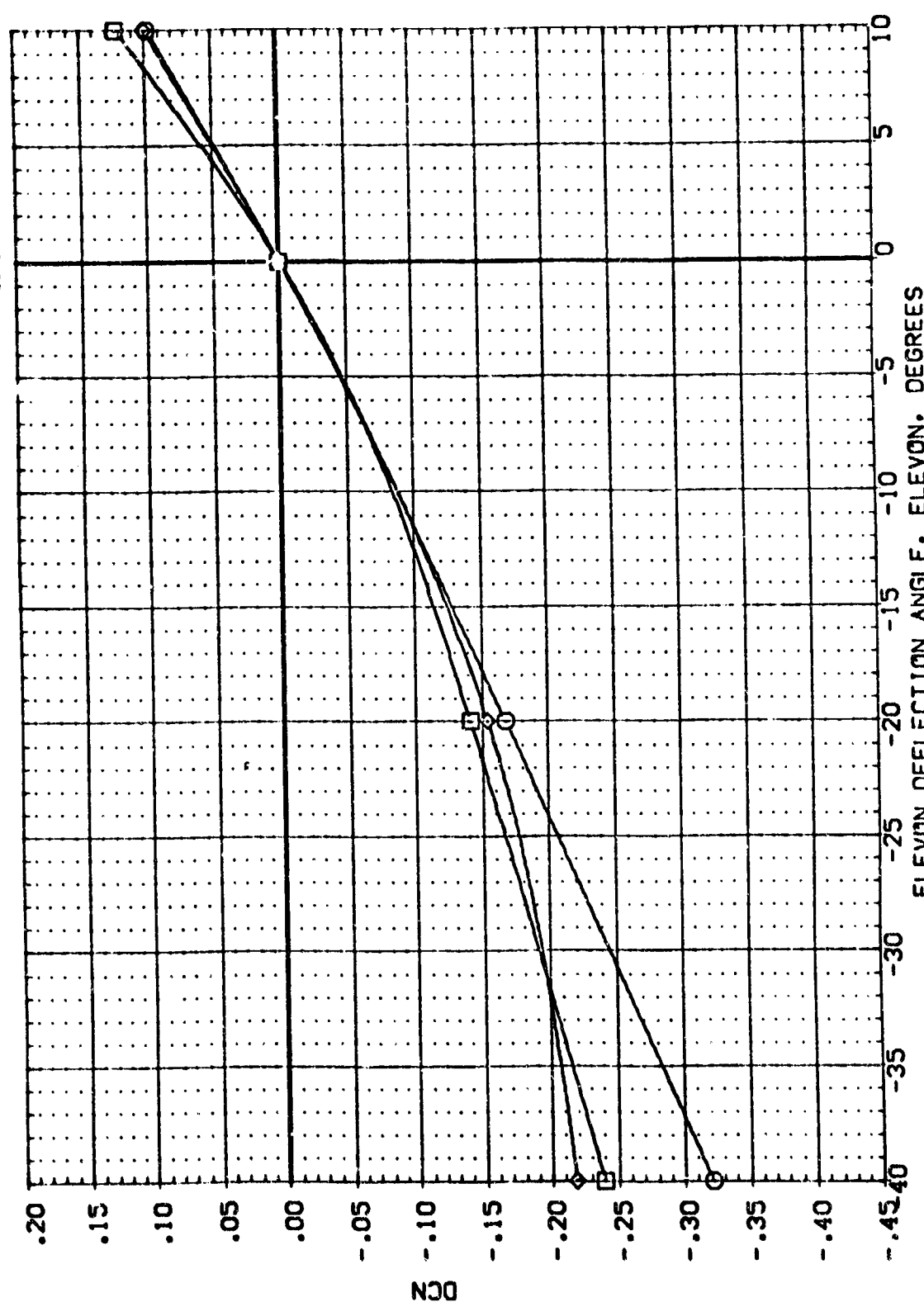


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B1C C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL		PARAMETRIC VALUES		DATA SOURCE		ELEVON		REFERENCE INFORMATION	
○	ALPHA	.000	MACH	.000	UBT006	.000	SREF	2690.0000	SG.FT.
□	10.000	.000	ATLON	54.500	UBT006	-40.000	UREF	474.8000	N
◇	20.000	-14.200	BOFLP	.000	UBT004	.000	YREF	936.6800	N
							ZREF	176.4800	N
							SCALE	400.0000	N
								.0150	SCALE

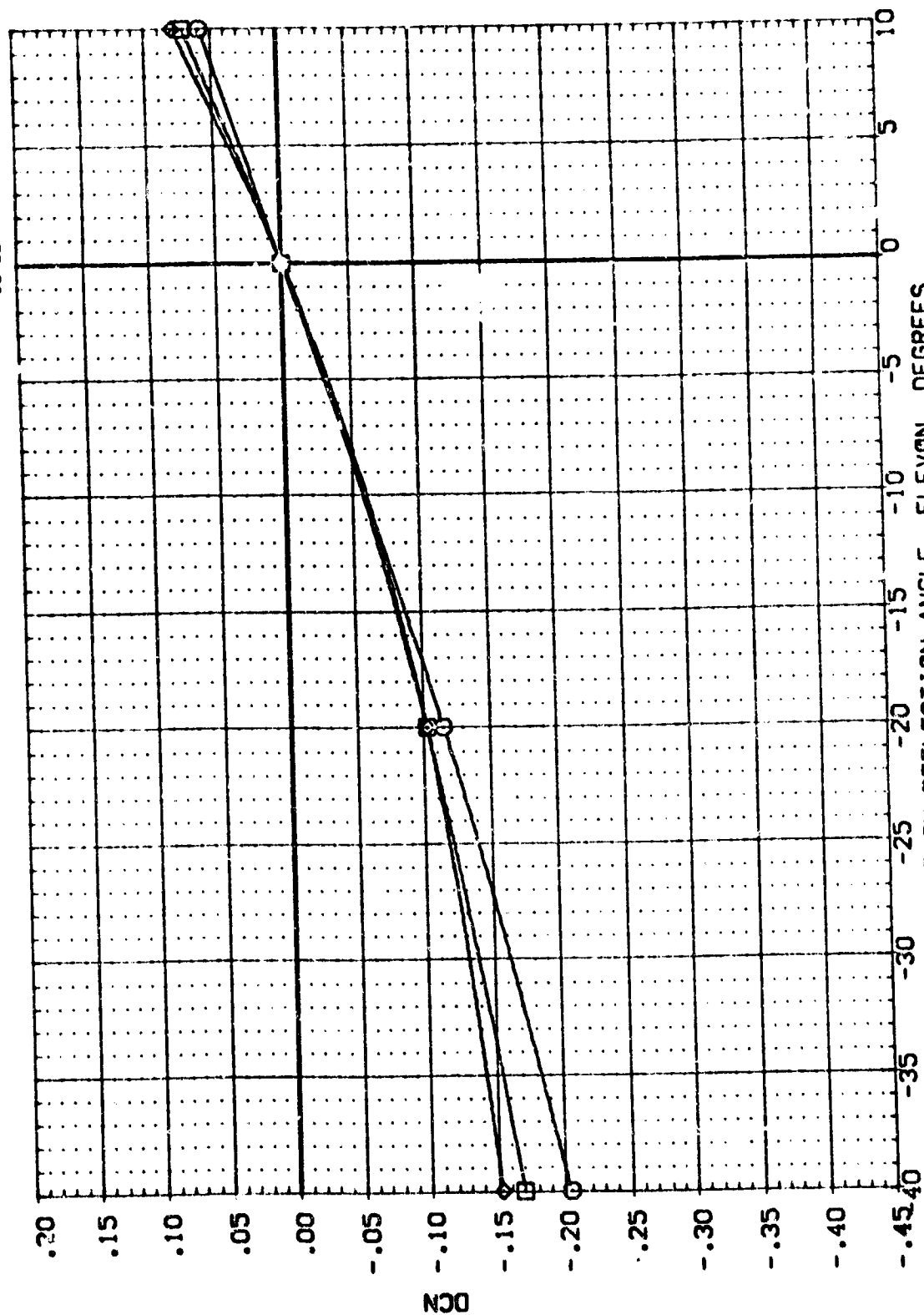


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE IN DEVIATION	50. FT.
0010	.000	MACH	ELEVON	SREF	2690.0000
0011	10.000	AIRREV	BETA	LREF	474.8000
0012	20.000	BOOFLP	SPOCRK	BREF	936.6800
			FLUDER	XREF	1075.4300
				YREF	0.0000
				ZREF	400.0000
				SCALE	.0150

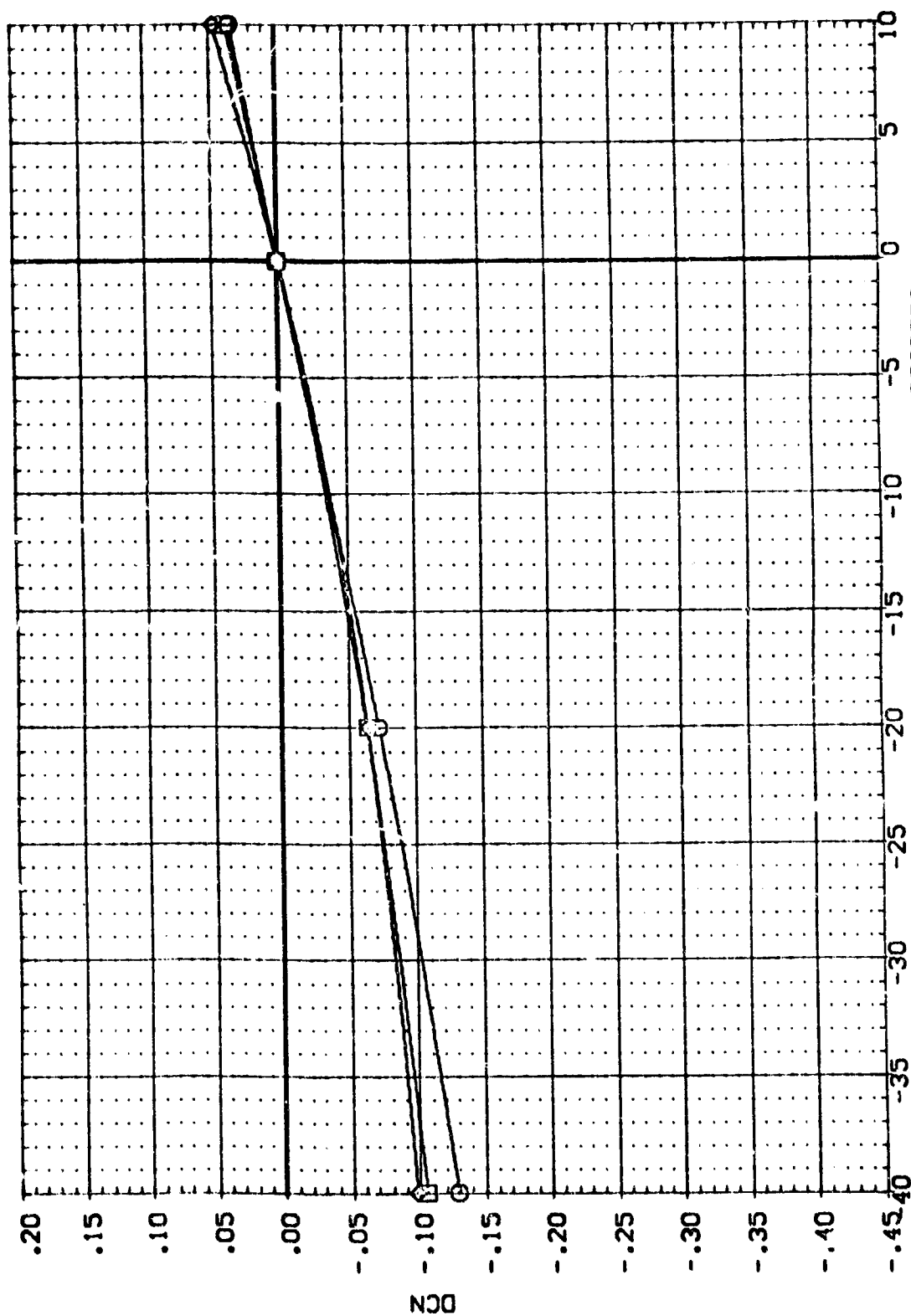


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVLONS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		ELEVON		REFERENCE INFORMATION	
◇	.000	A11R0N	.600	BETA	.000	UBT006	-40.000	UBT004	SREF	2697.000J
	10.000	BCDLP	.000	SPDRK	54.900	UBT006	-10.000	UBT005	LREF	474.8000
	20.000		-14.200	RJDER	.000	UBT004	10.000		BREF	936.6800
									XMRP	1076.4800
									YMRP	.0000
									ZMRP	100.0000
									SCALE	.0150
										50.FT.

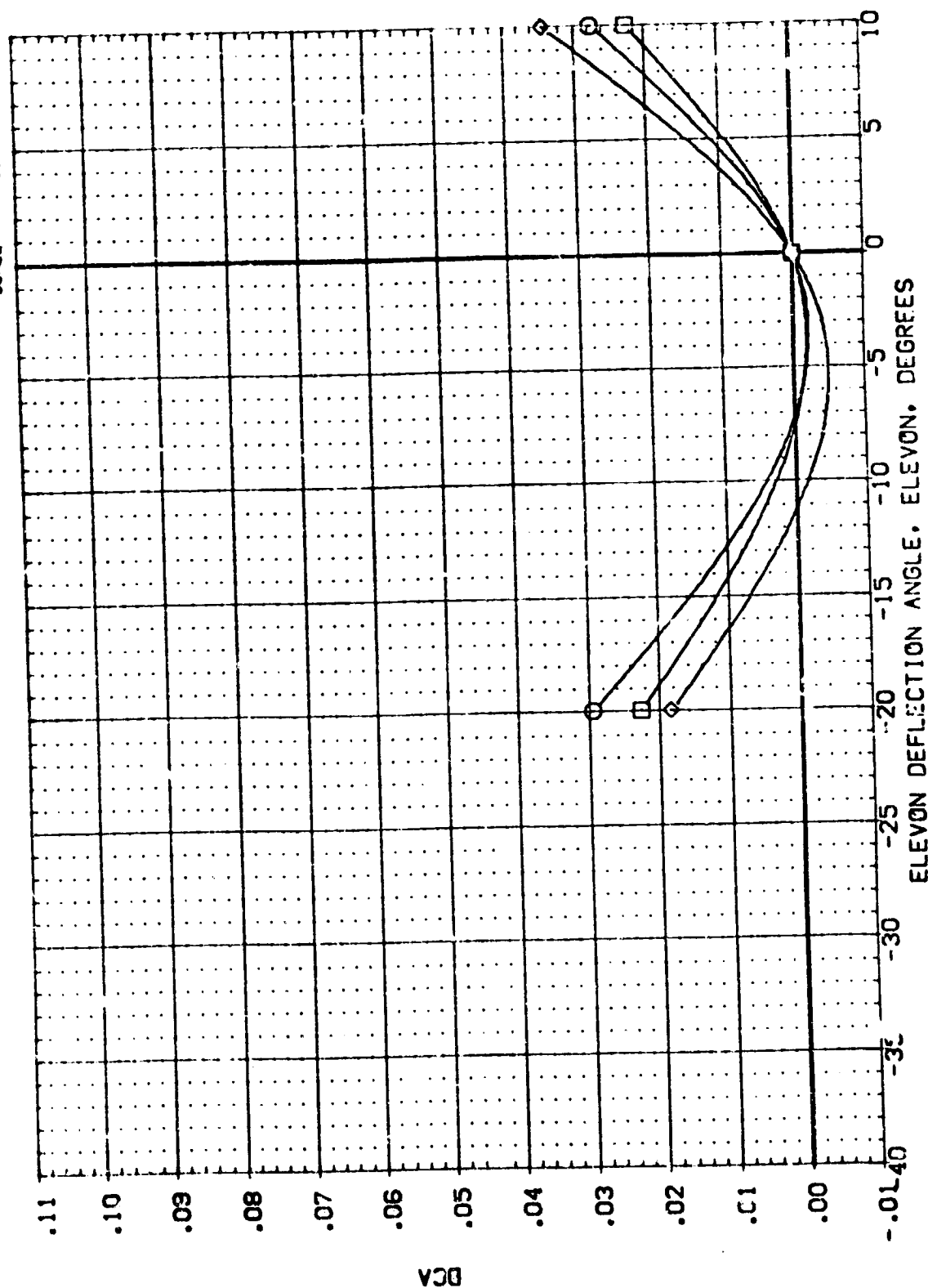


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 0A43 B:0 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	DATA SET	REFERENCE INFORMATION
○	.000	.900	BETA	.000	-20.000	UBT022	SREF 2690.0000 SQ.FT.
□	10.000	.000	SPOBRK	54.900	10.000	UBT005	LREF 174.8000 IN.
◇	20.000	-14.200	RUDCR	.000	.000		BREF 936.6800 IN.
							XREF 1076.4800 IN.
							ZREF 400.0000 IN.
							SCALE .0150

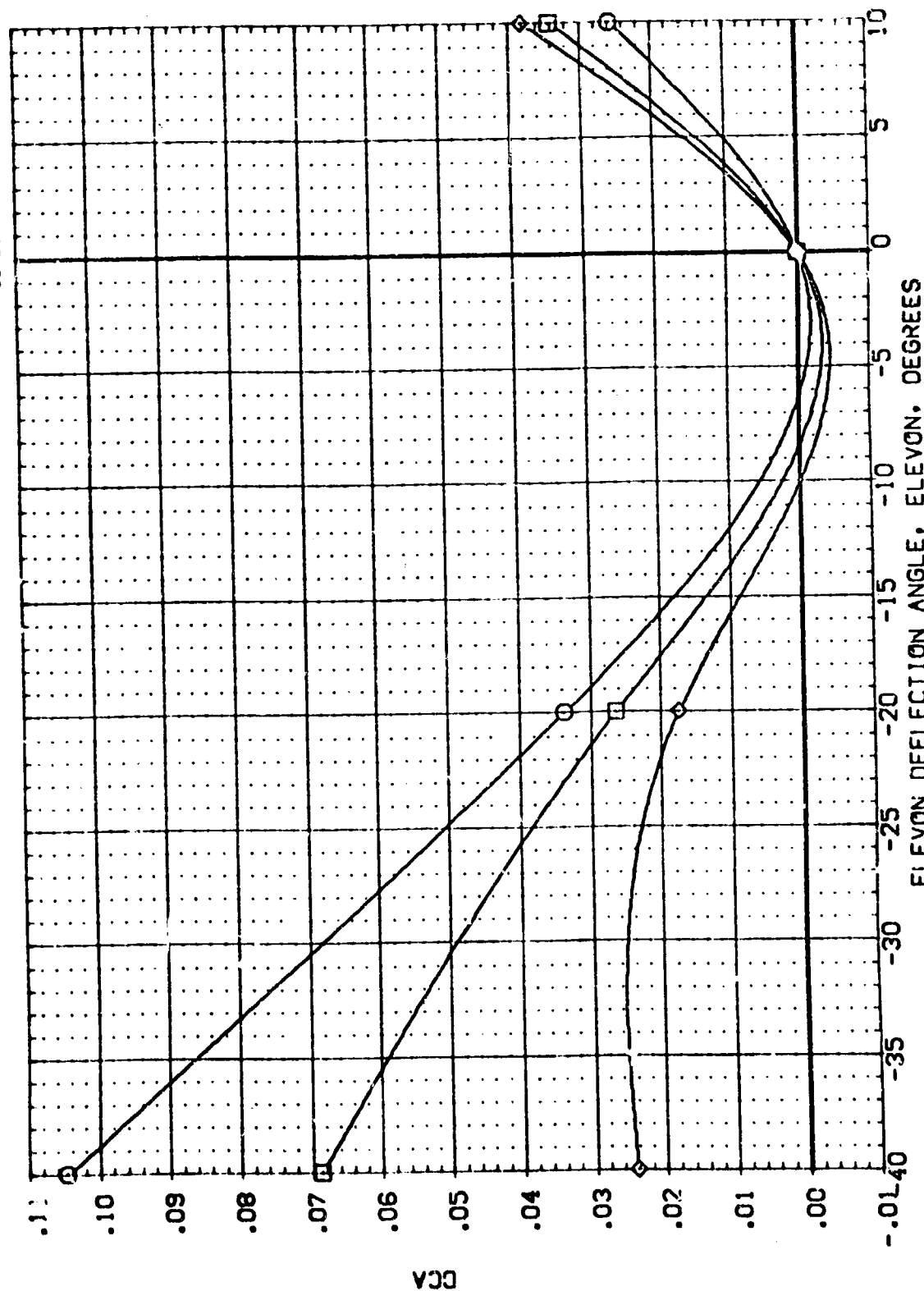


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		ELEVON		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	DATASET	ELEVON	DATASET	ELEVON	SREF	SQ.FT.
◇	.000	1.200	.000	.000	UBT005	UBT022	-22.000	474.8000	
◇	10.000	.000	SPOSRK	54.500	UBT005	UBT005	10.000	936.6800	
◇	20.000	-14.200	RJ00ER	.000	UBT004			1076.4800	
						YMRP	400.0000		
						ZMRP	400.0000		
						SCALE	.0150		

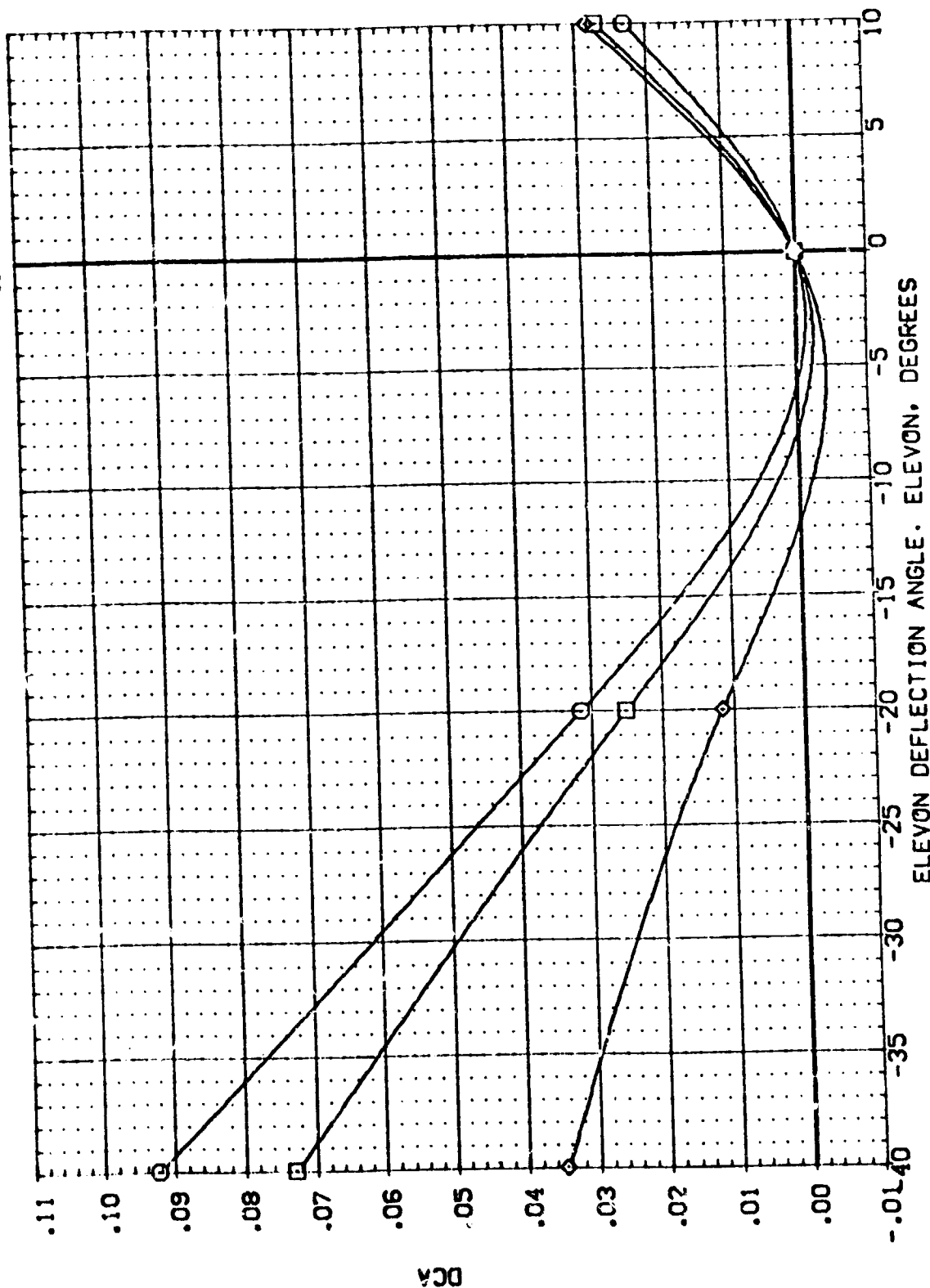


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	DATA SET	ELEVON	SREF	50.FT.
□	.000	1.500	.000	.000	-20.000	474.8000	IN.
□	10.000	.000	.000	UBT006	10.000	936.6800	IN.
◇	20.000	-14.200	.000	UBT005	1076.1800	1076.1800	IN.
						400.0000	IN.
						400.0000	IN.
						SCALE	.0150

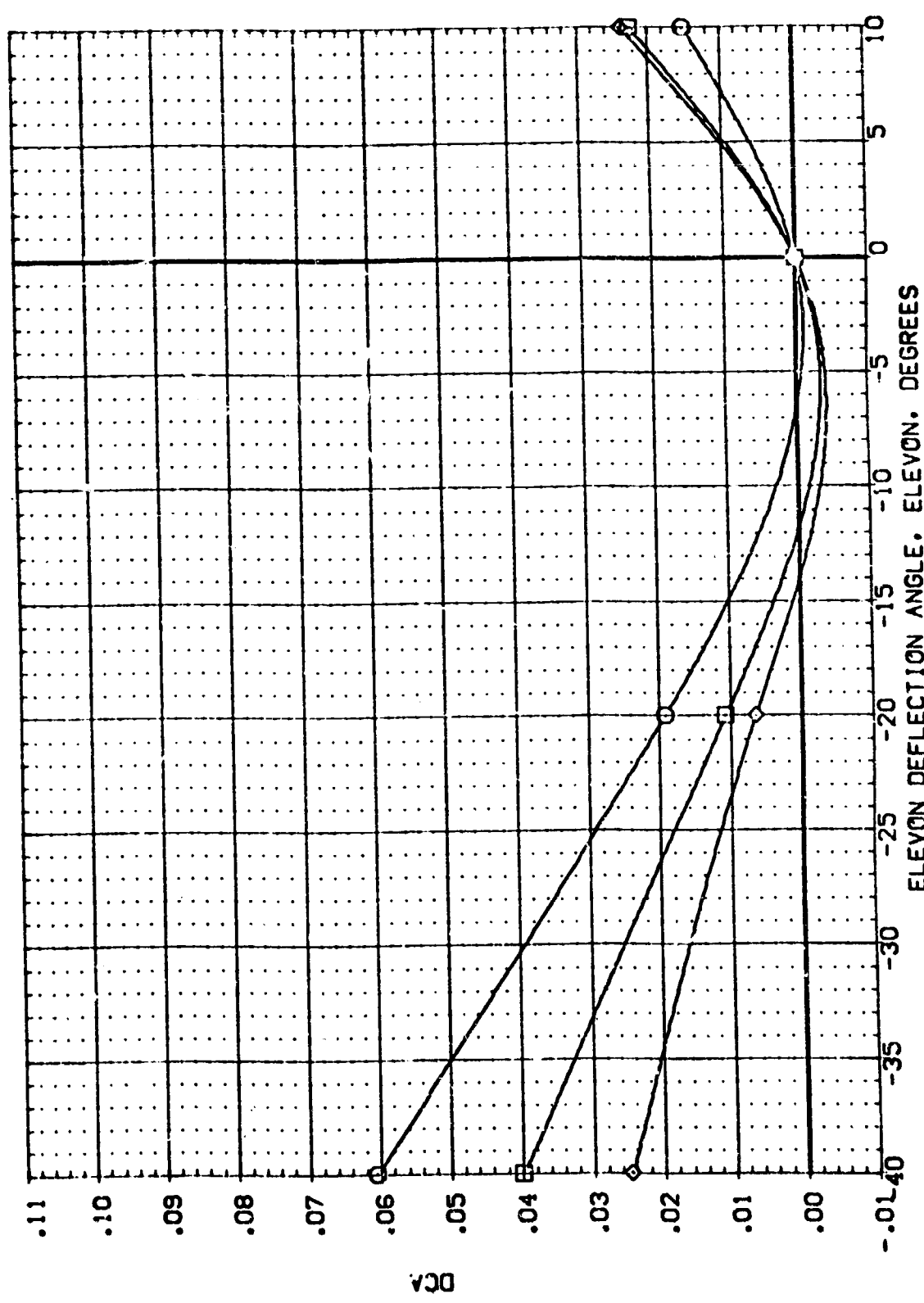


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(U8T006)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	ELEVON	SC.FT.	IN.	IN.
○	.000	2.000	.000	U8T006	2690.0000	474.8000	936.6800
□	10.000	.000	.000	U8T005	1076.4800	1076.4800	1076.4800
◇	20.000	-14.200	.000	U8T004	400.0000	400.0000	400.0000

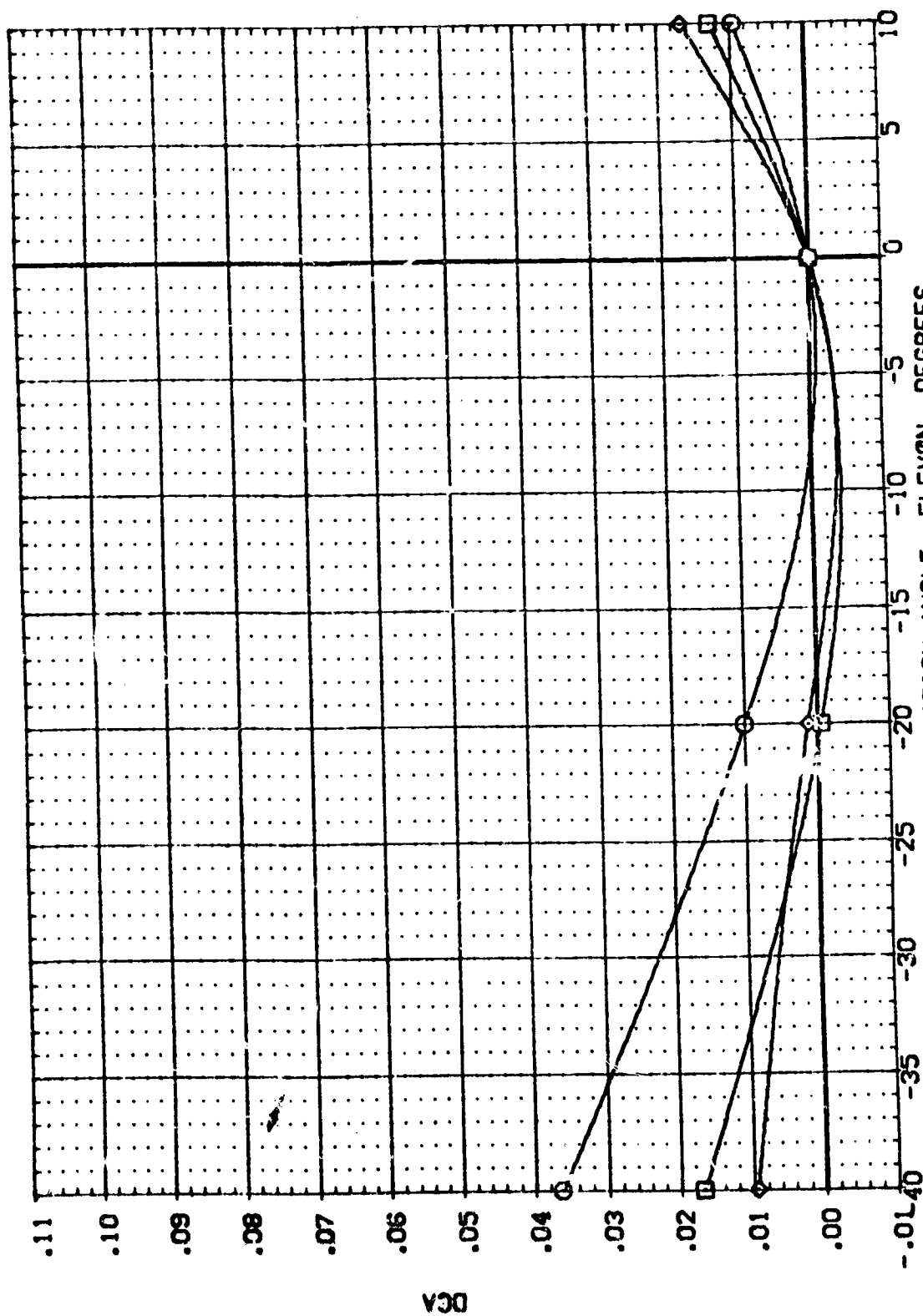


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE		ELEVON		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	SPDRBK	UBT006	UBT005	UBT006	UBT005	SREF	SO.FT.
○	.000	.600	.000	.000	.000	.000	.000	.000	2690.0000	IN.
□	10.000	AILRON	.000	.000	54.900	UBT006	-20.000	10.000	474.8000	IN.
◇	20.000	800FLP	-14.200	RUDDER	.000	UBT004	10.000	10.000	936.6800	IN.
									1076.4800	IN.
									400.0000	IN.
									400.0000	IN.
									SCALE	SCALE
									.0150	

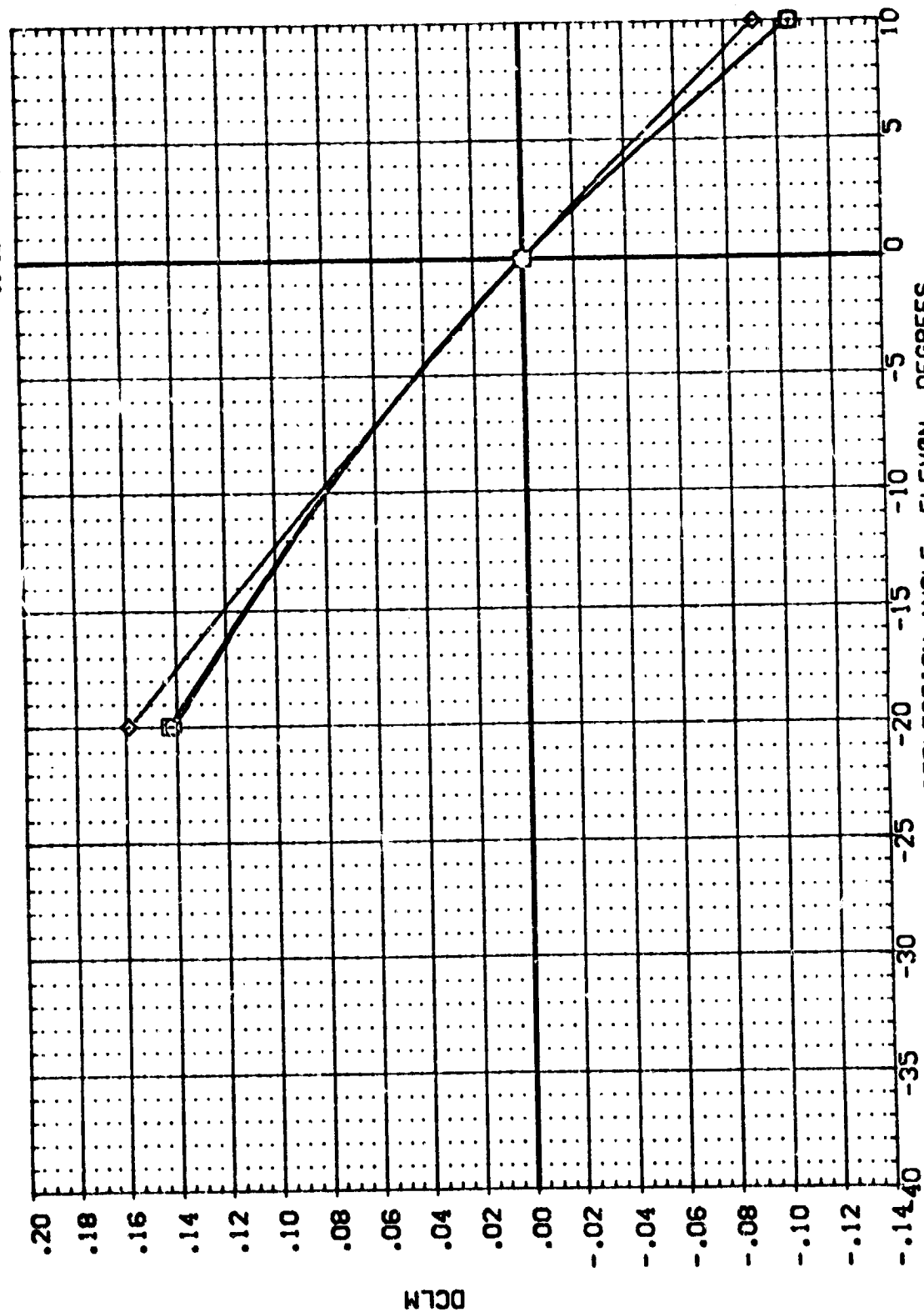


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(UB10006)

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
 2630.0000
 474.8000
 936.6800
 1076.4800
 0.0000
 400.0000
 0.0150
 SCALE

DATA SOURCE
 DATASET
 UB10006
 ELEVON
 -20.000
 10.000

PARAMETRIC VALUES
 .000 BETA
 54.900 SPDRK
 .000 RUDDER
 -14.200

ALPHA
 .000
 10.000
 20.000

SYMBOL
 ○ □ ◇

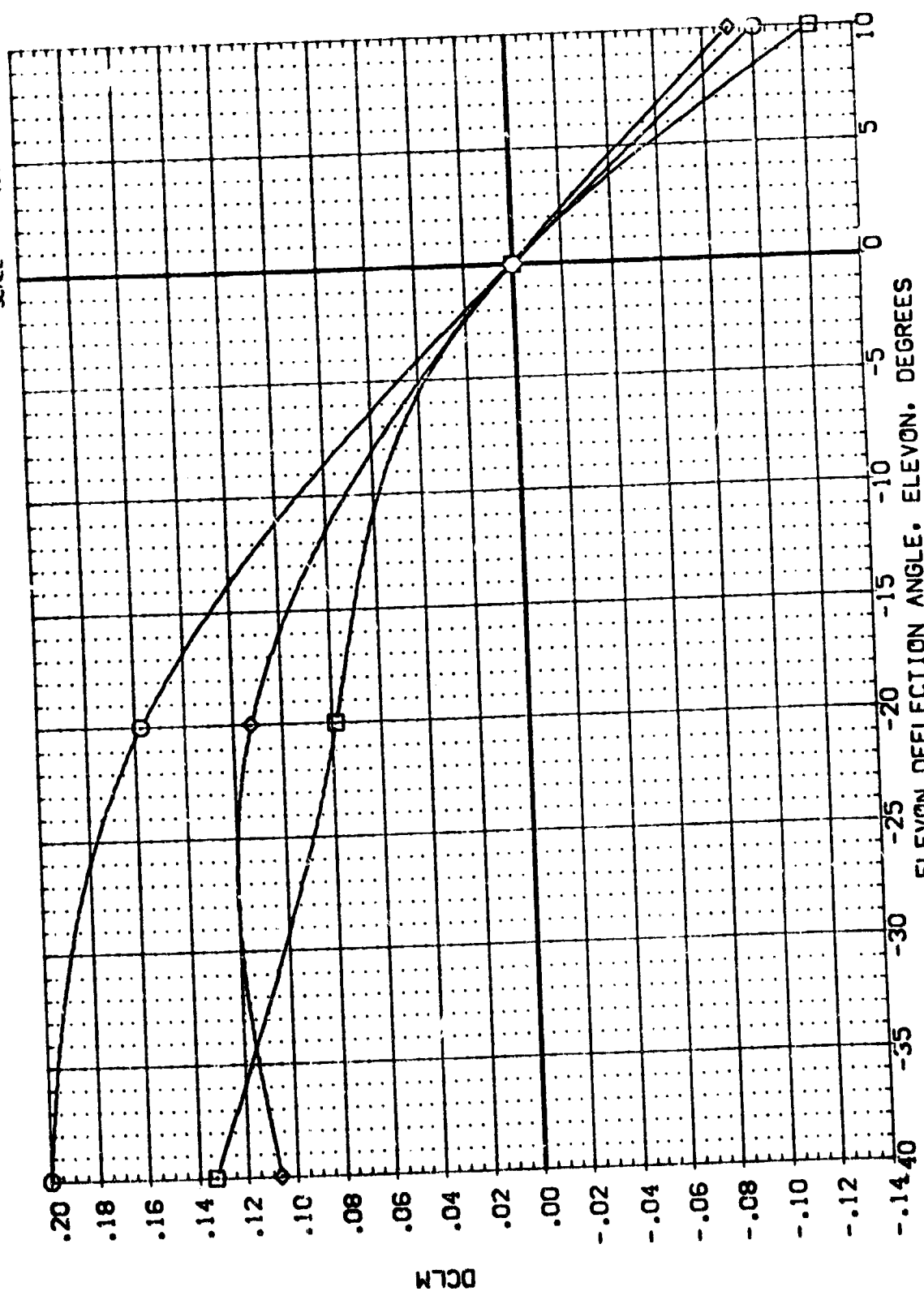


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (UBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	DATA SET	ELEVON	SREF	SG.FT.
○	.000	1.200	.000	.000	UBT022	2690.0000	IN.
□	10.000	.000	.000	54.900	UBT006	474.8000	IN.
◇	20.000	.000	.000	.000	UBT005	936.6800	IN.
						1076.4800	IN.
						400.0000	IN.
						400.0000	IN.
						SCALE	0.0150

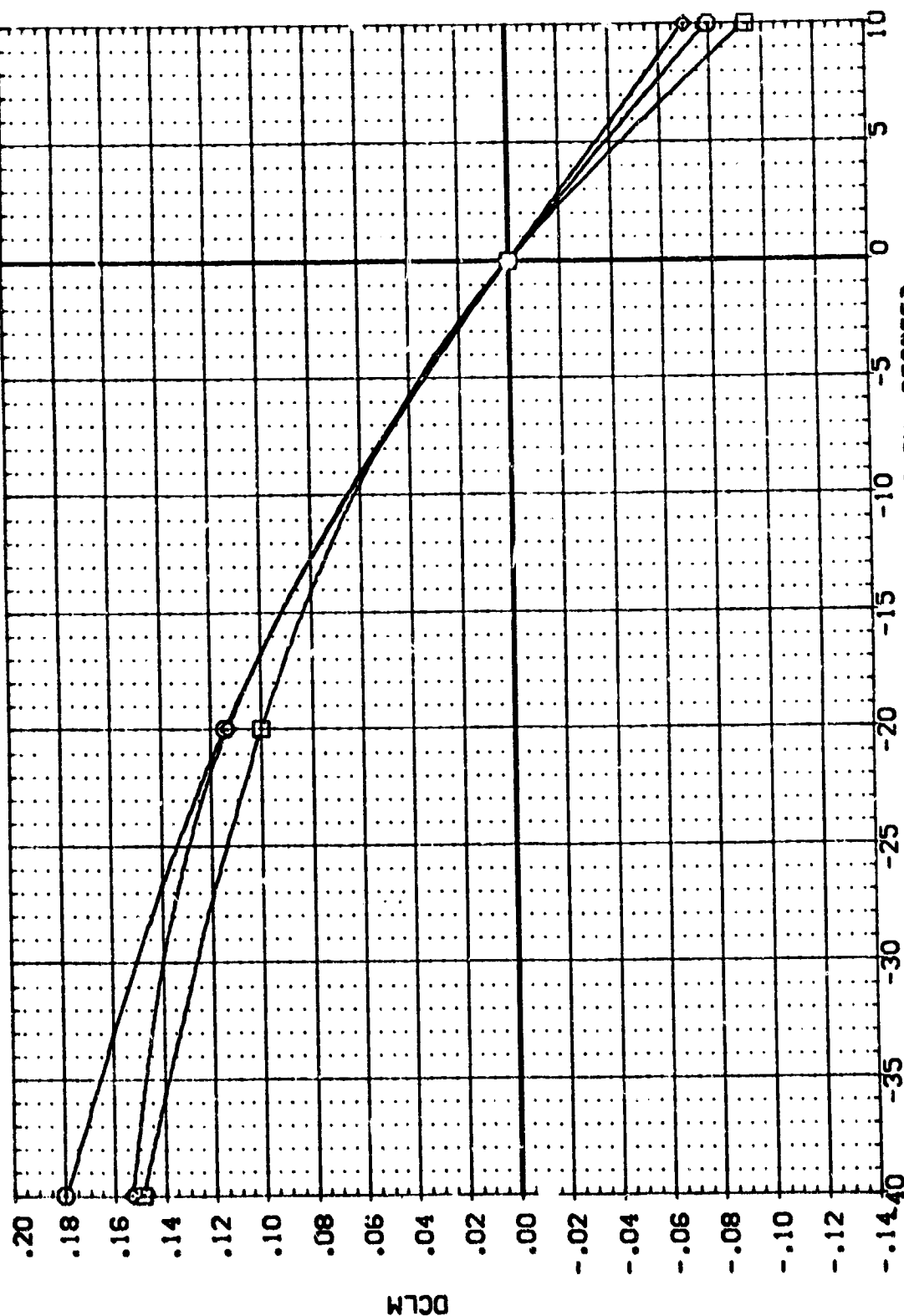
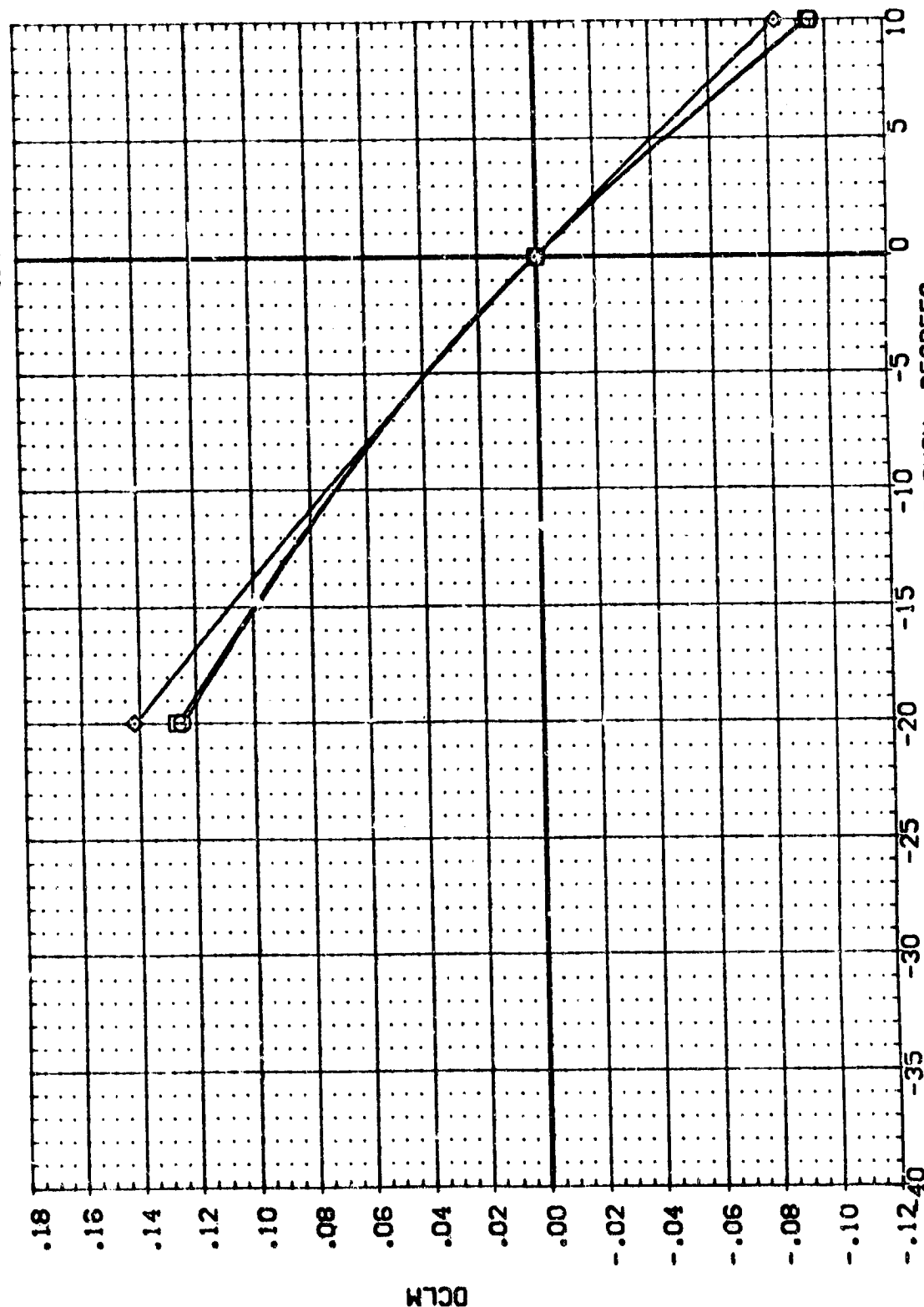


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (VB1000S)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	SPDRK	LATASET	ELEVON	SREF	SQ.FT.
○	.000	.000	.000	.000	.000	-20.000	LREF	474.8000
□	10.000	.000	.000	.000	54.900	10.000	BREF	936.6800
◇	20.000	BODFLP	-14.200	RUDSR	.000	VB1004	XMRP	1103.2400
					.000	VB1005	YMRP	400.0000
							ZMRP	400.0000
							SCALE	.0150



ELEVON DEFLECTION ANGLE, DEGREES

FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (VB1006)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	ELEVON	DATA SET	ELEVON	SCALE	REFERENCE INFORMATION
○	.000		BETA	.000	VB1006	VB1006	-20.000	2690.0000	SREF
□	10.000	ALLRON	SPOBRK	54.900	VB1006	VB1006	10.000	474.8000	LREF
◇	20.000	BODFLP	RUDER	.000	VB1004	VB1004	10.000	936.6800	BREF
								1103.2400	XREF
								.0000	YREF
								400.0000	ZREF
								.0150	SCALE

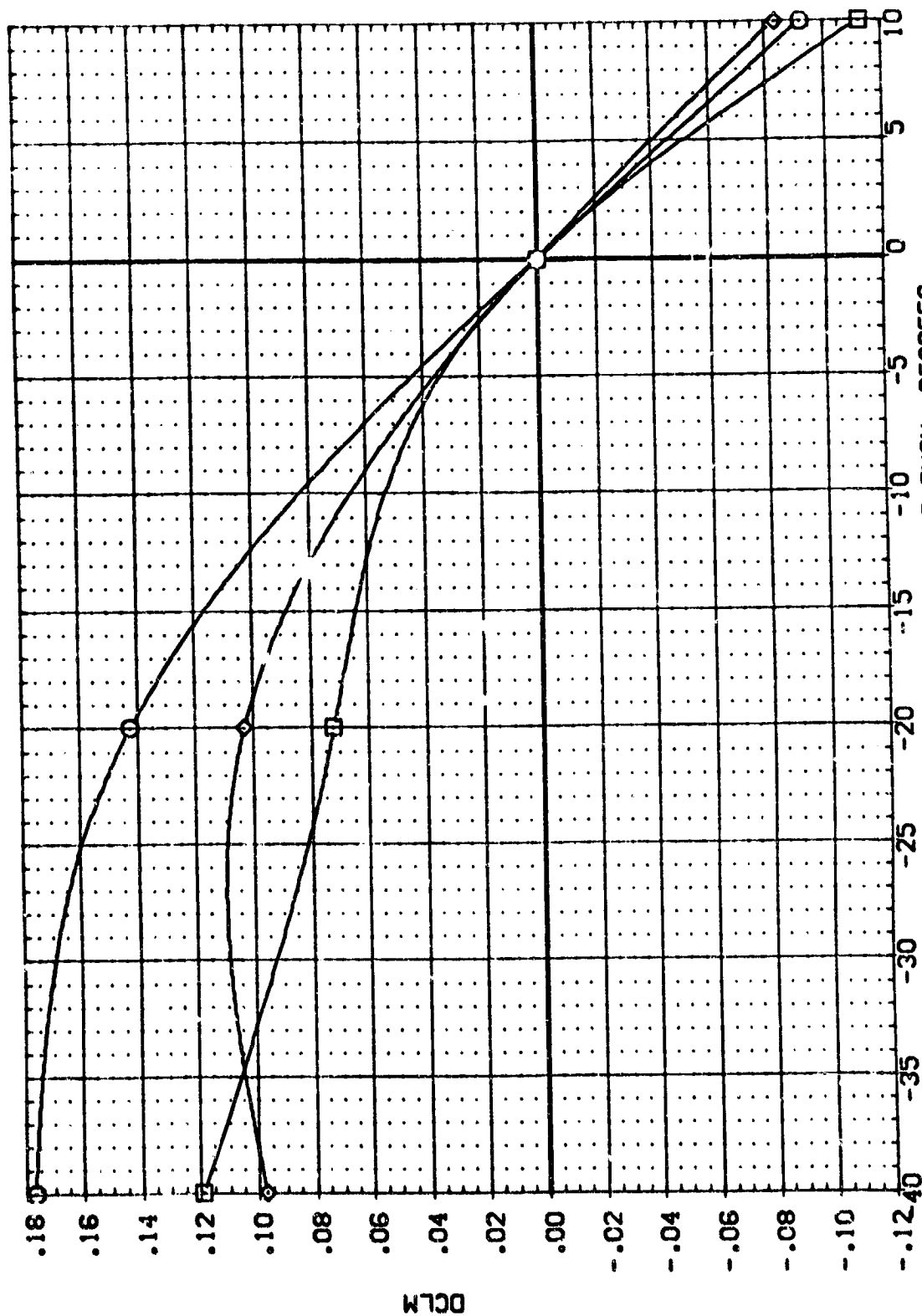


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 V5R5 (VBT006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		ELEVON		REFERENCE INFORMATION	
	ALPHA	MACH	BETA	DATASET	ELEVON	DATASET	ELEVON	SREF	SQ.FT.
○	.000	1.200	.000	.000	VBT006	VBT022	-20.000	LREF	471.8000
□	10.000	.000	SPDRK	54.900	VBT006	VBT005	10.000	BREF	936.6800
◇	20.000	-14.200	RODER	.000	VBT004			XREF	1103.2400
								YREF	.0000
								ZREF	400.0000
								SCALE	.0150

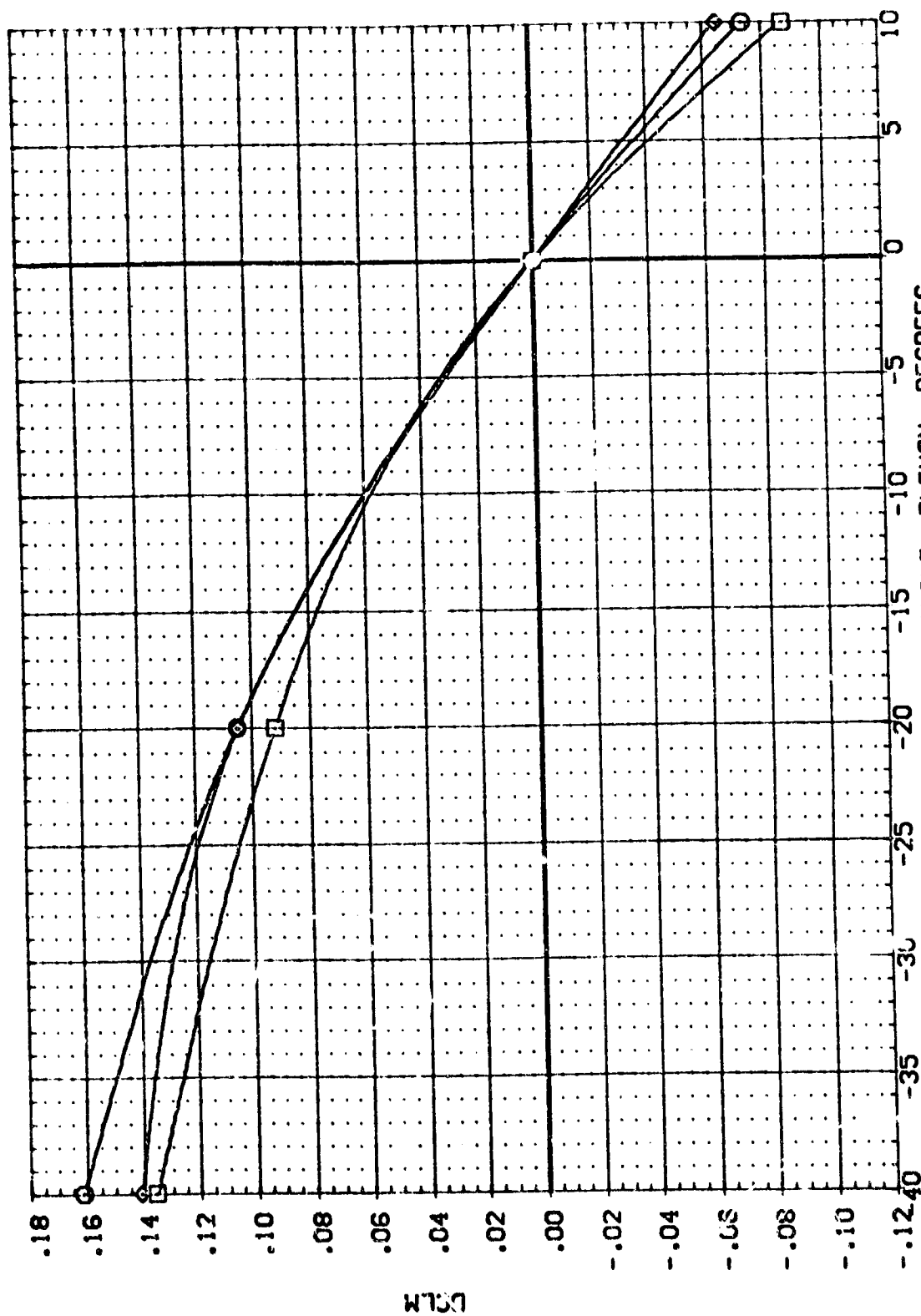


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (VB70006)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	.000	DATASET	ELEVON	SREF	REF	SCALE
○	.000	1.500	.000	.000	VB7006	-40.000	2690.0000	LREF	0.150
□	10.000	.000	SPDRK	54.900	VB7005	.000	474.8000	BREF	
◇	20.000	2000LP	RUGER	.000	VB7004	.000	936.8600	XMRP	
							1103.2400	YMRP	
							.0000	ZMRP	
							400.0000	SCALE	

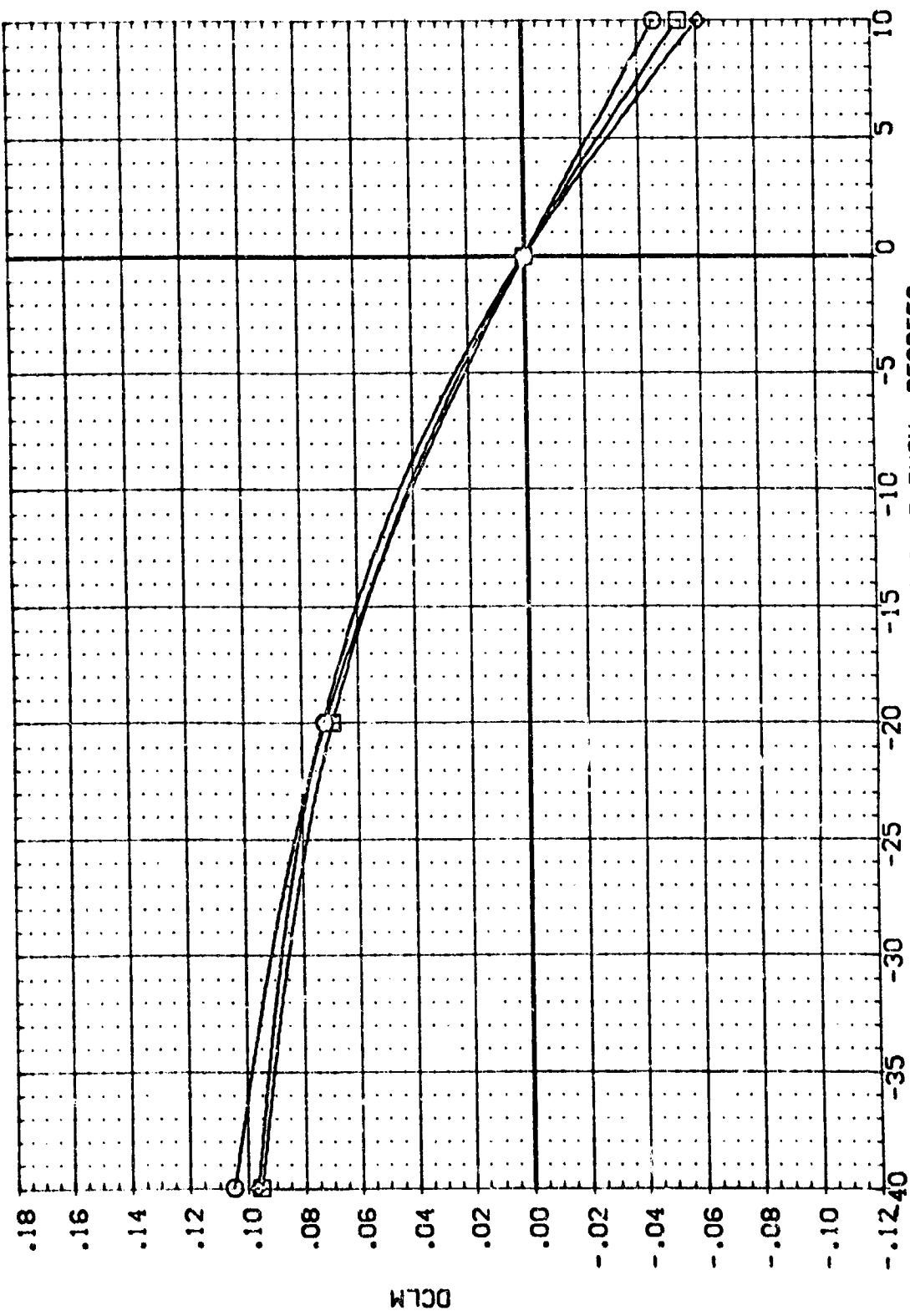


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)

AYES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (V8T006)

SYMBOL	ALPHA	MACH	PARA-METRIC VALUES	DATA SOURCE	ELEVON	DATA SET	ELEVON	SREF	REFERENCE INFORMATION
○	.000		2.000 BETA	.000	VB1022	VB1005	-20.000	2630.0000	2630.0000
□	.000	ALLCON	.000 SPOSRK	54.900	VB1006		10.000	474.8000	474.8000
◇	20.000	BOOFLP	-14.200 RUDDER	.000	VB1004			936.6800	936.6800
								1103.2400	1103.2400
								400.0000	400.0000
								400.0000	400.0000
								SCALE	SCALE
								0.50	0.50

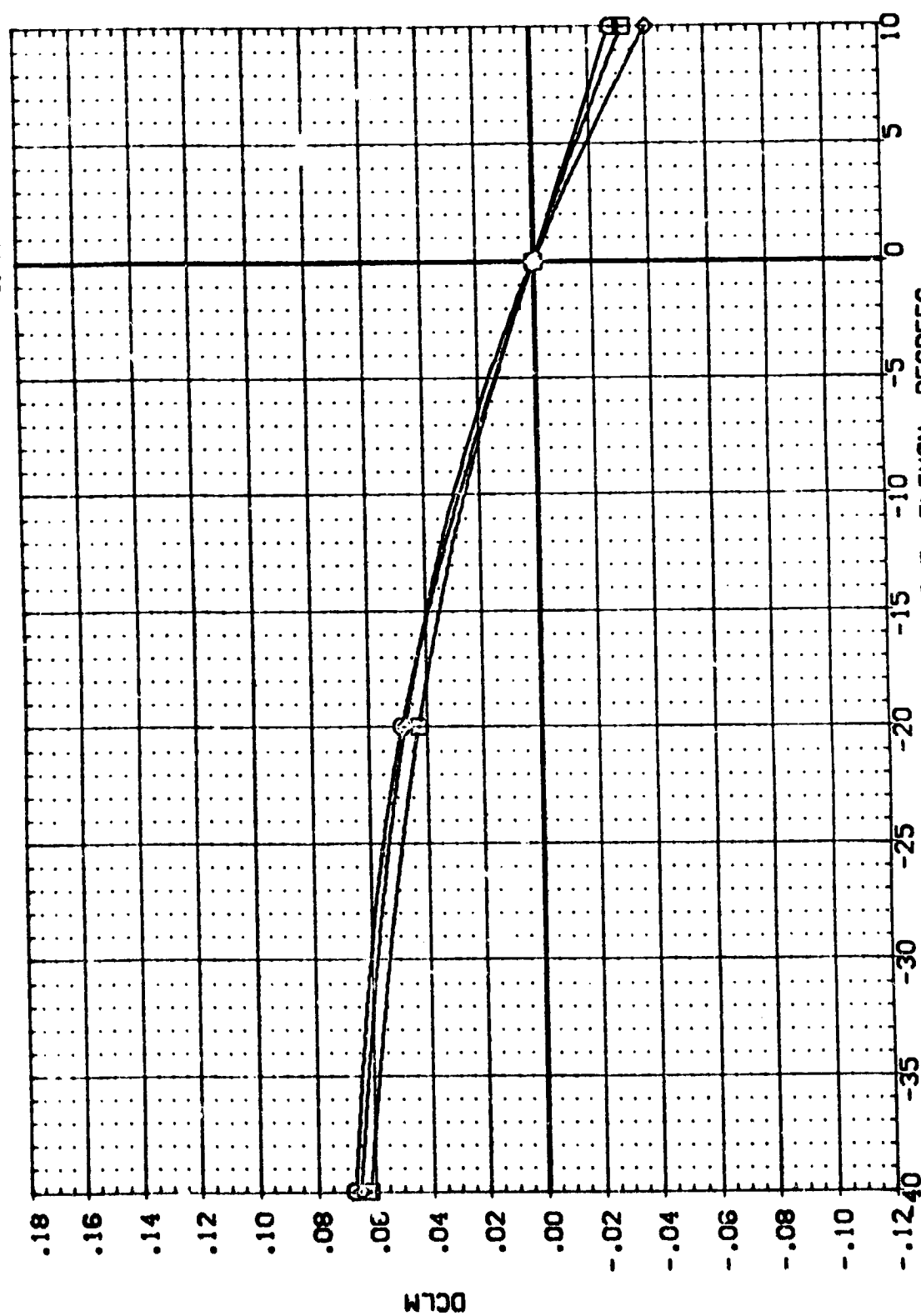


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION
(L8T006)	ANES 66-706 DA43 B10 CS D7 MG F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	SREF 2650.0000 90.FT.
(L8T022)	ANES 66-706 DA43 B10 CS D7 MG F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	LREF 474.8000 11.N.
(L8T025)	ANES 66-706 DA43 B10 CS D7 MG F4 V87E18 VSRS	-14.200	10.000	54.900	.000	BREF 936.6800 11.N.
						XREF 1076.4800 11.N.
						YREF .0000 11.N.
						ZREF 400.0000 11.N.
						SCALE .0150

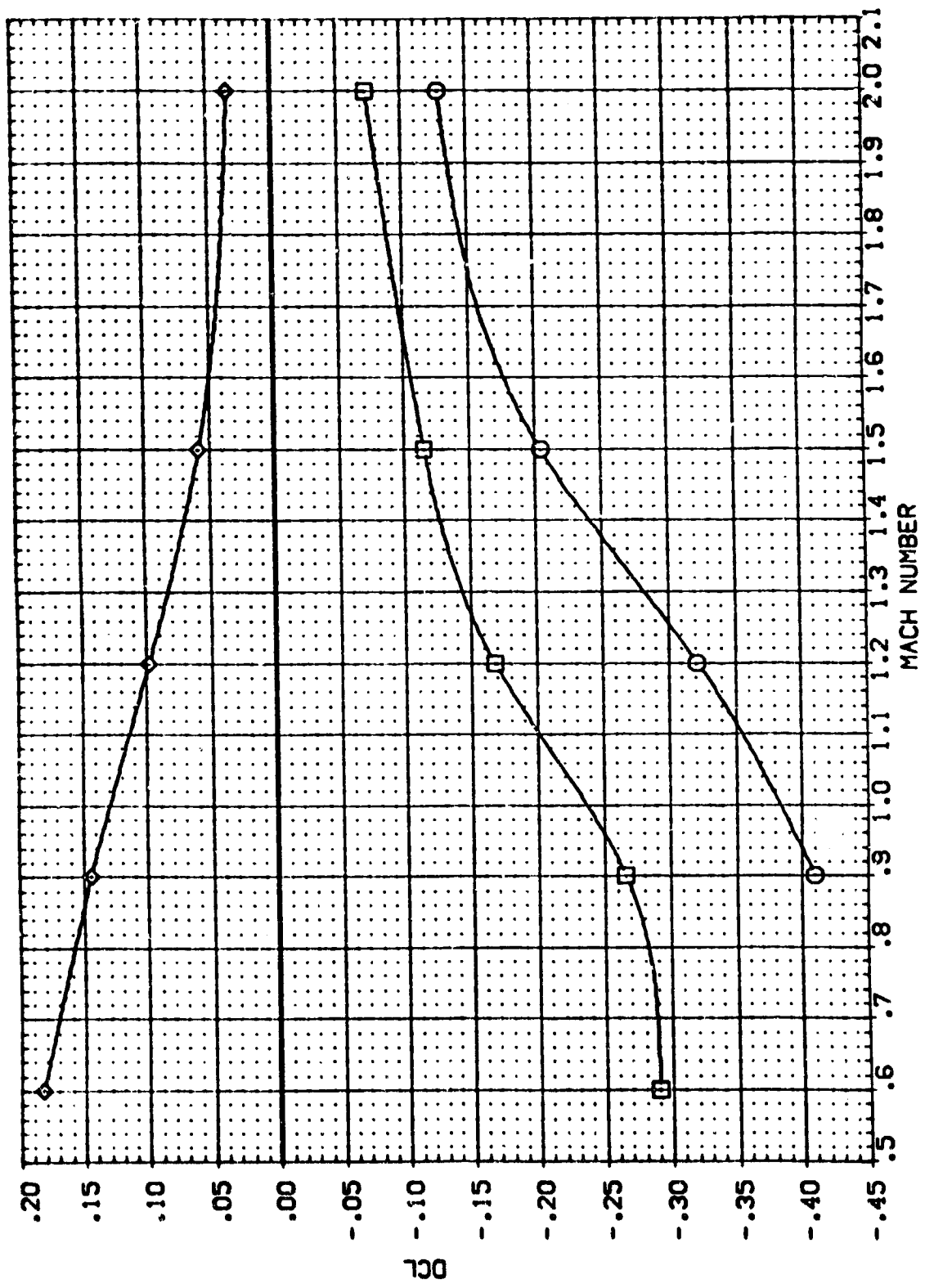


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION	
(L8T006)	AVES 66-706 CA43 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	-40.000	54.900	.000	SREF	2690.0000 SQ.FT.
(L8T022)	AVES 66-706 CA43 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	-20.000	54.900	.000	LREF	474.8000 IN.
(L8T035)	AVES 66-706 CA43 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	10.000	54.900	.000	BREF	936.6800 IN.
						XREF	1076.1800 IN.
						YREF	.0000 IN.
						ZREF	400.0000 IN.
						SCALE	.0150

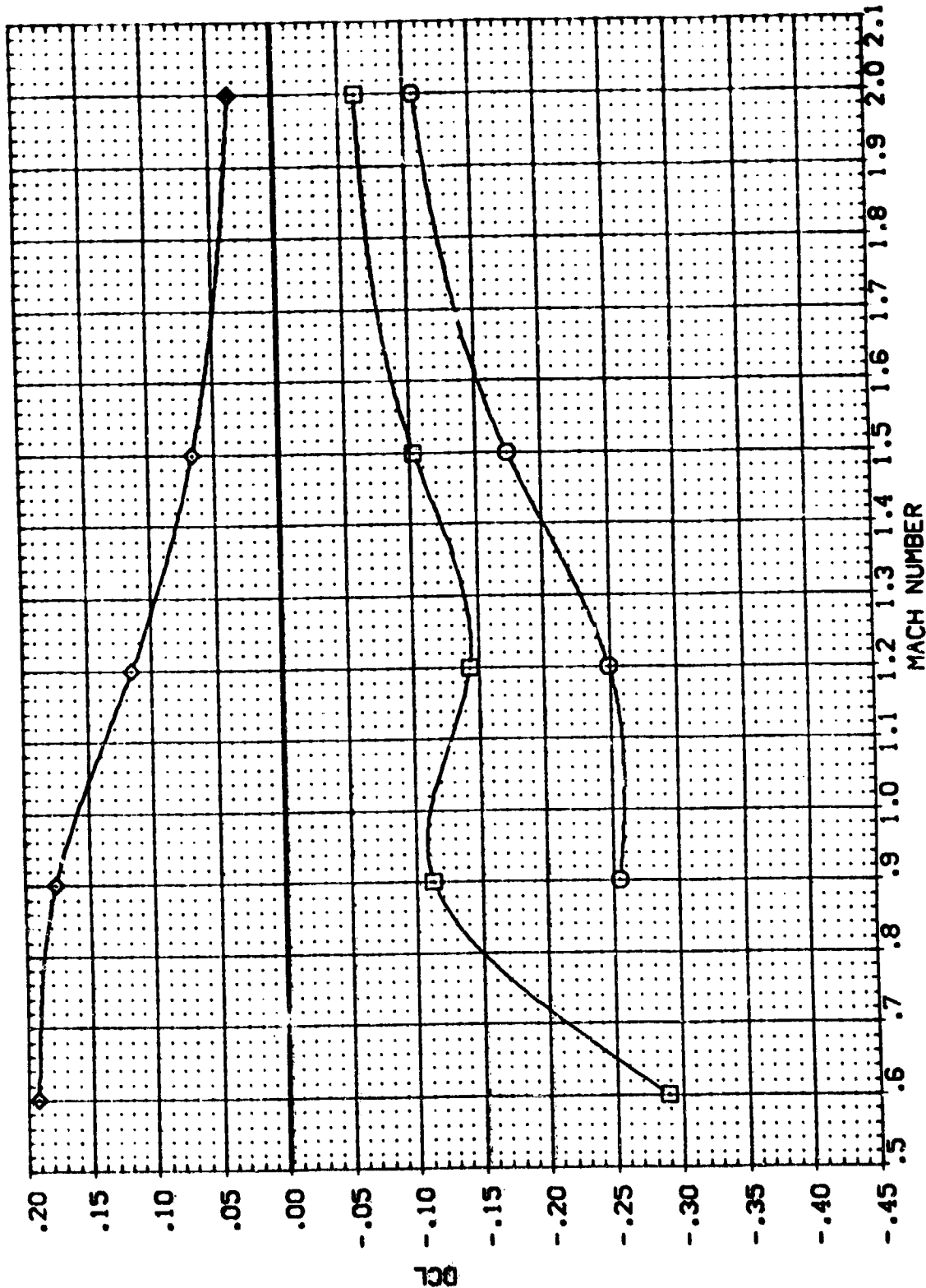
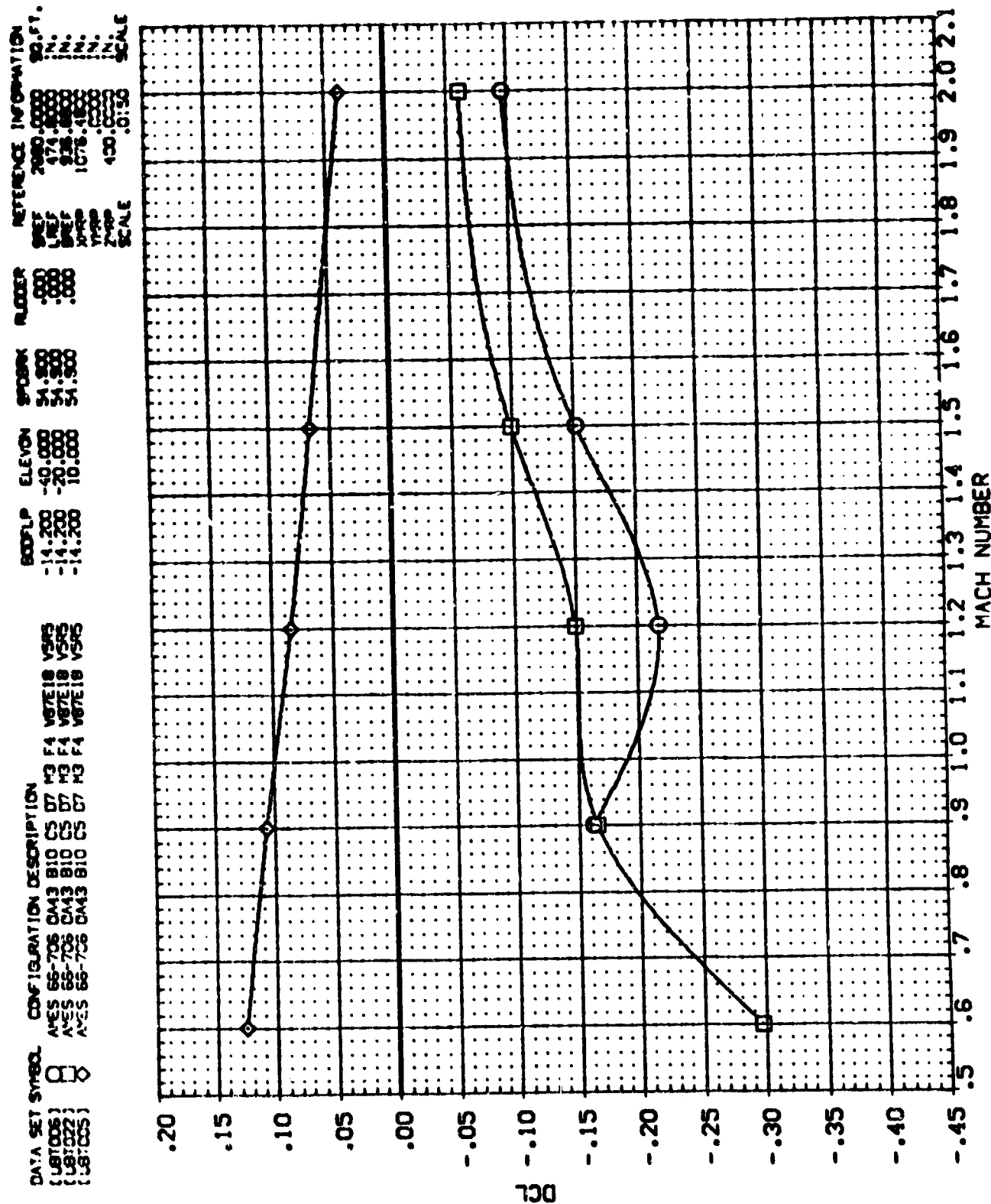


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(B) ALPHA = 10.00


$$CC3ALPHA = 20.00$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPODBK	ALDOER	REFERENCE INFORMATION
(U81006)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	-10.000	54.800	.000	SREF 2050.0000 SQ.FT.
(U81022)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	-20.000	54.500	.000	LREF 474.8000 IN.
(U81005)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	10.000	54.500	.000	SREF 936.6800 IN.
						XREF 1076.1000 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

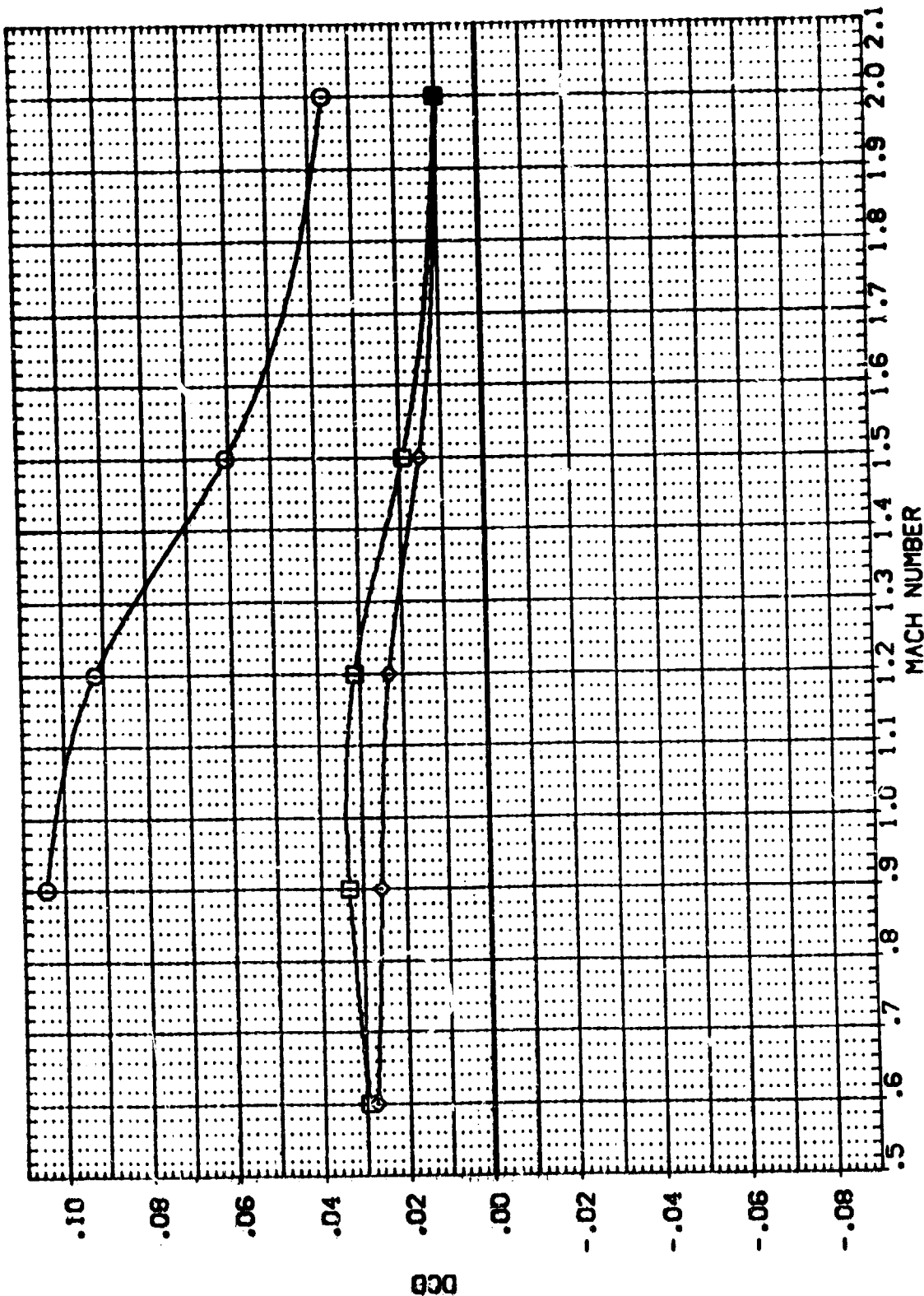


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

CAJALPHA = .00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOZ P	ELEVON	SPOONK	BLUDDY	REFERENCE INFORMATION
(UBT005)	AVES 66-706 0M13 810 CS D7 F4 V87E18 V585	-14.200	-40.000	54.500	.000	REF 2000.0000 90.000
(UBT022)	AVES 66-706 0M13 810 CS D7 F4 V87E18 V585	-14.200	-20.000	54.500	.000	REF 174.0000 10.000
(UBT005)	AVES 66-706 0M13 810 CS D7 F4 V87E18 V585	-14.200	10.000	54.500	.000	REF 1078.0000 10.000
						TRAP 400.0000 10.000
						SCALE 400.0150 10.000

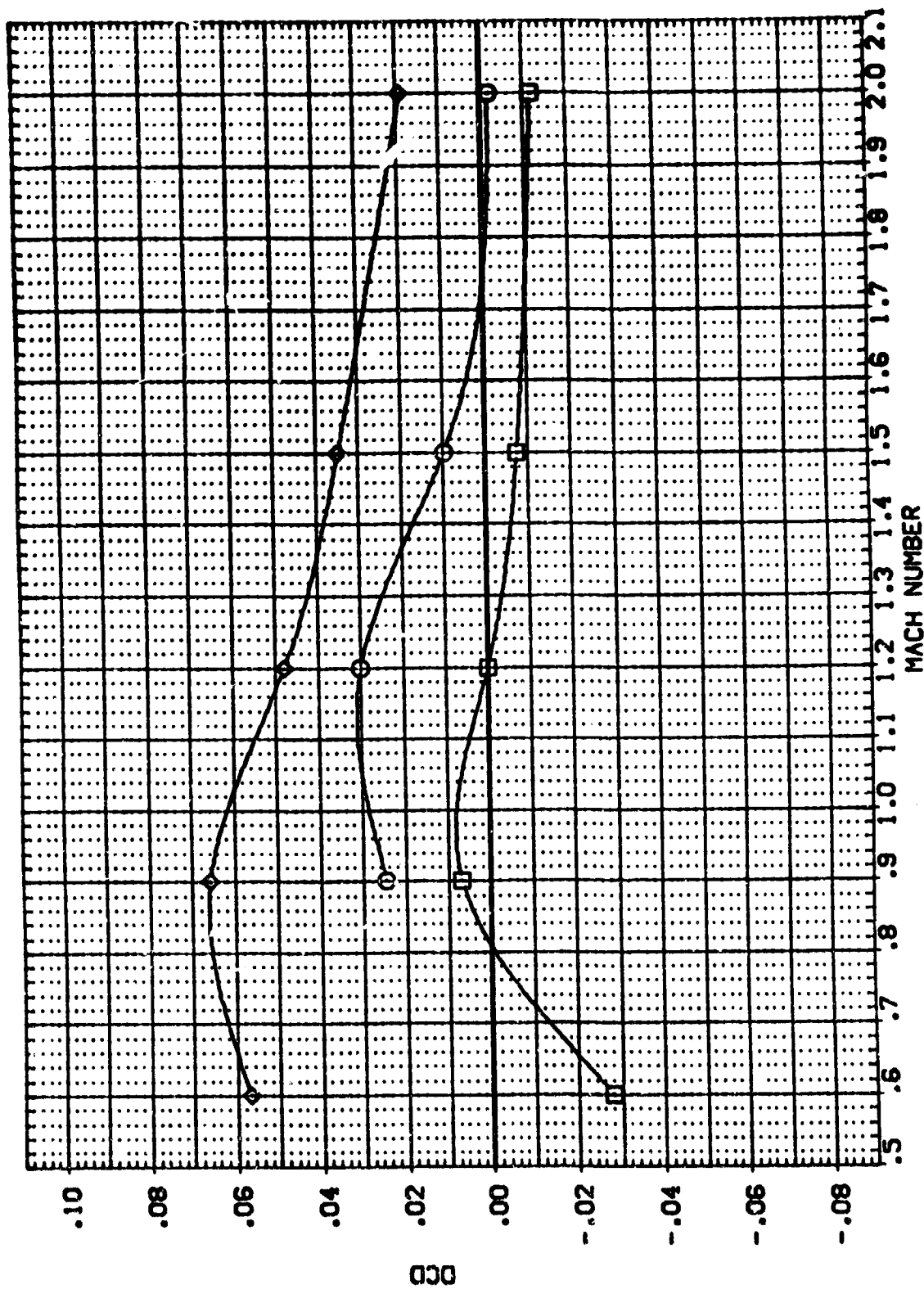


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS
(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPORNK	RUDDER	REFERENCE INFORMATION
(UBT005)	AVES 65-70S DM3 B10 CS 07 K3 F4 V87E18 VSR5	-14.200	-40.000	54.900	.000	SWET 2580.0000 IN.
(UBT022)	AVES 65-70S DM3 B10 CS 07 K3 F4 V87E18 VSR5	-14.200	-20.000	54.900	.000	LINE 474.0000 IN.
(UBT005)	AVES 65-70S DM3 B10 CS 07 K3 F4 V87E18 VSR5	-14.200	10.000	54.900	.000	SWET 1078.1800 IN.
						THAP .0000 IN.
						THAP .0000 IN.
						THAP .0150 IN.
						SCALE

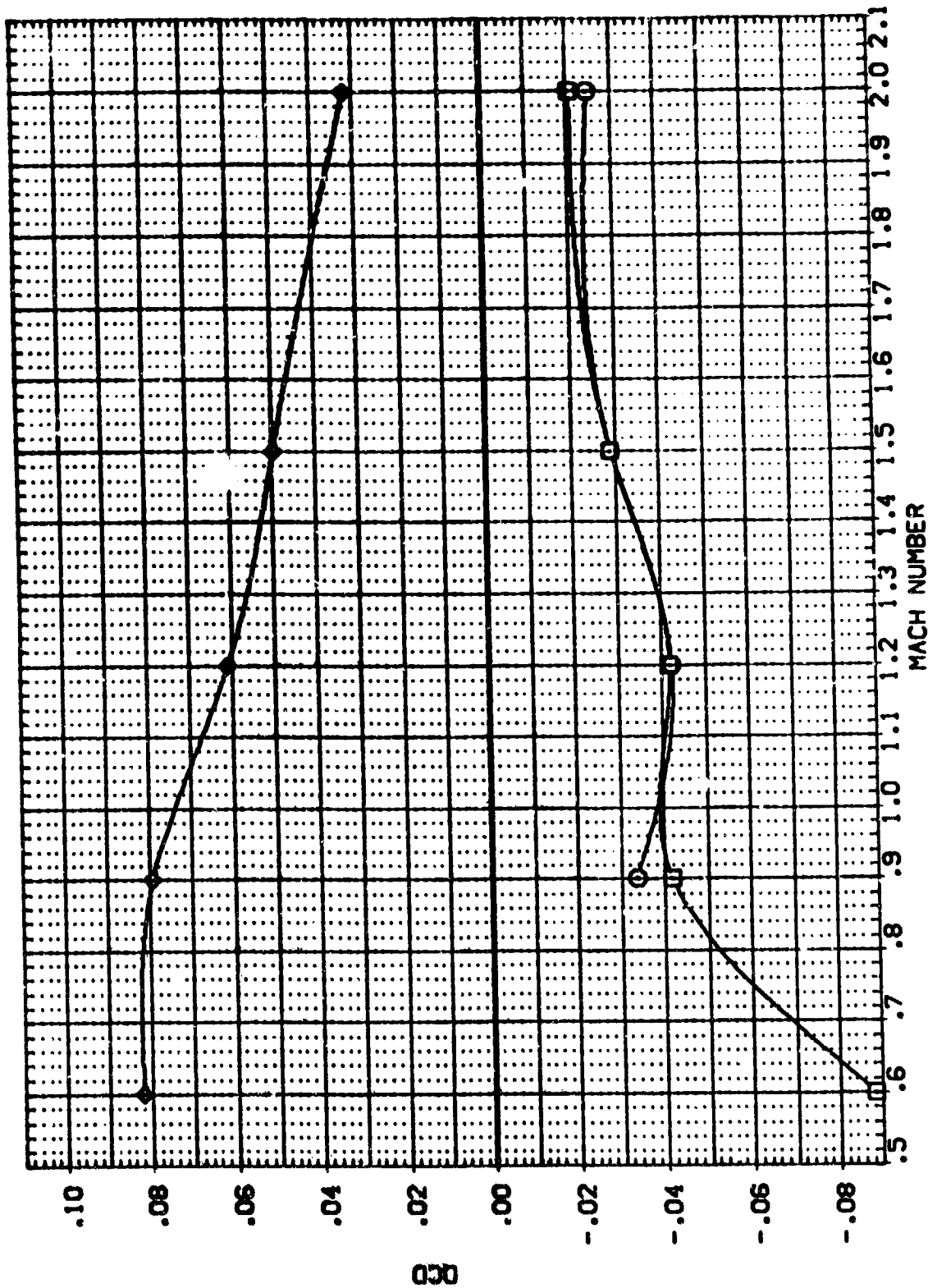


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(C) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(UBT006)	AMES 66-706 0443 B10 CS D7 H3 F4 V67E18 VS95	-14.200	-10.000	54.900	.000	SREF 2630.0000 SO.FT.
(UBT022)	AMES 66-706 0443 B10 CS D7 H3 F4 V67E18 VS95	-14.200	-20.000	54.900	.000	LREF 474.0000 IN.
(UBT005)	AMES 66-706 0443 B10 CS D7 H3 F4 V67E18 VS95	-14.200	10.000	54.100	.000	BREF 936.8800 IN.
						YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

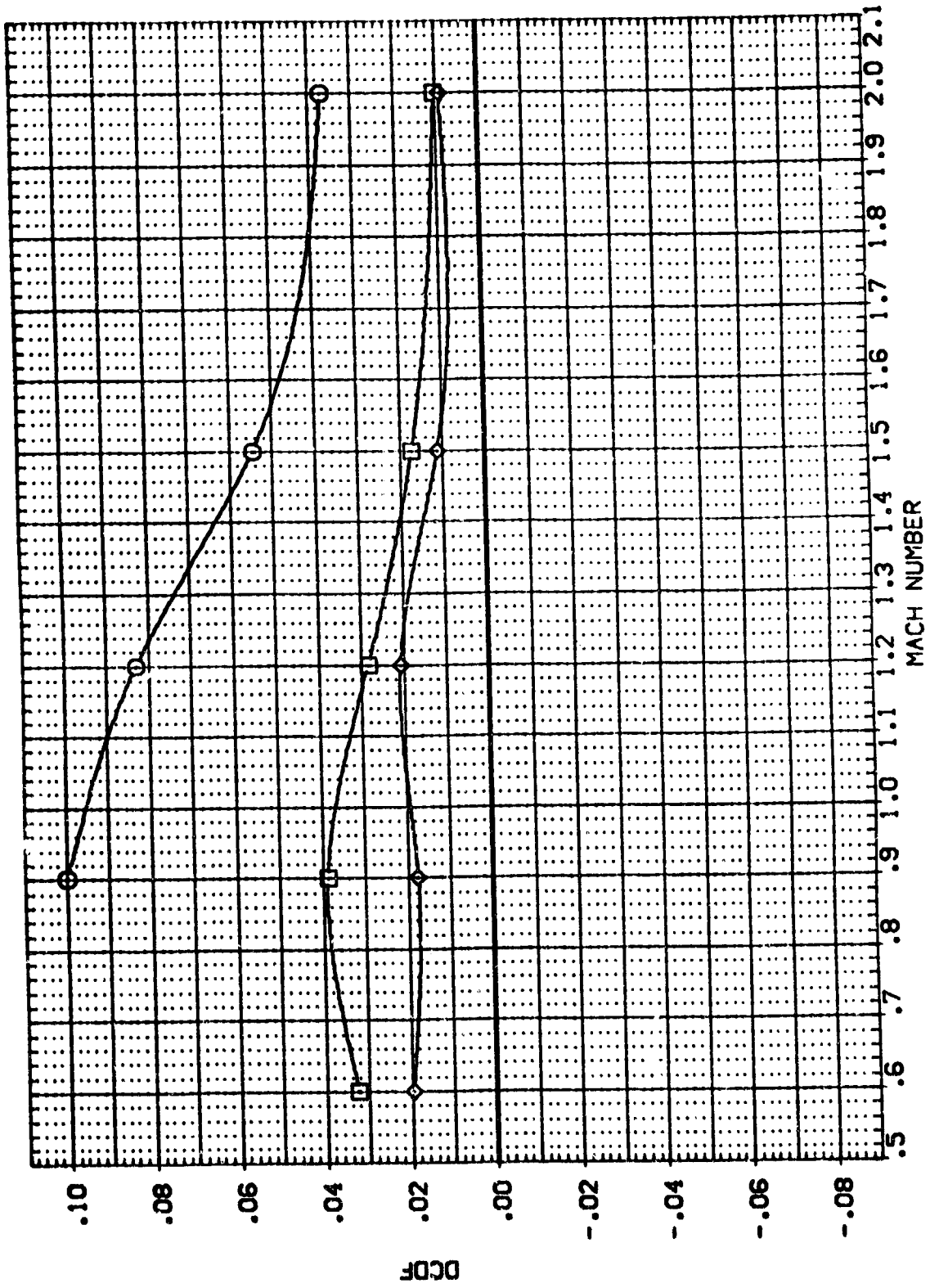


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(α) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRK	RUDER	REFERENCE INFORMATION
[181005]	APES 66-705 OM3 B10 CS 07 M3 F4 V67E18 VSR5	-14.200	-40.000	54.900	.000	SREF 2690.0000 90.0000
[181005]	APES 66-705 OM3 B10 CS 07 M3 F4 V67E18 VSR5	-14.200	-20.000	54.900	.000	LREF 474.8000 90.0000
[181005]	APES 66-705 OM3 B10 CS 07 M3 F4 V67E18 VSR5	-14.200	10.000	54.900	.000	BREF 906.6800 90.0000
						XREF 1076.4800 90.0000
						YREF 400.0000 90.0000
						ZREF 400.0000 90.0000
						SCALE .0150

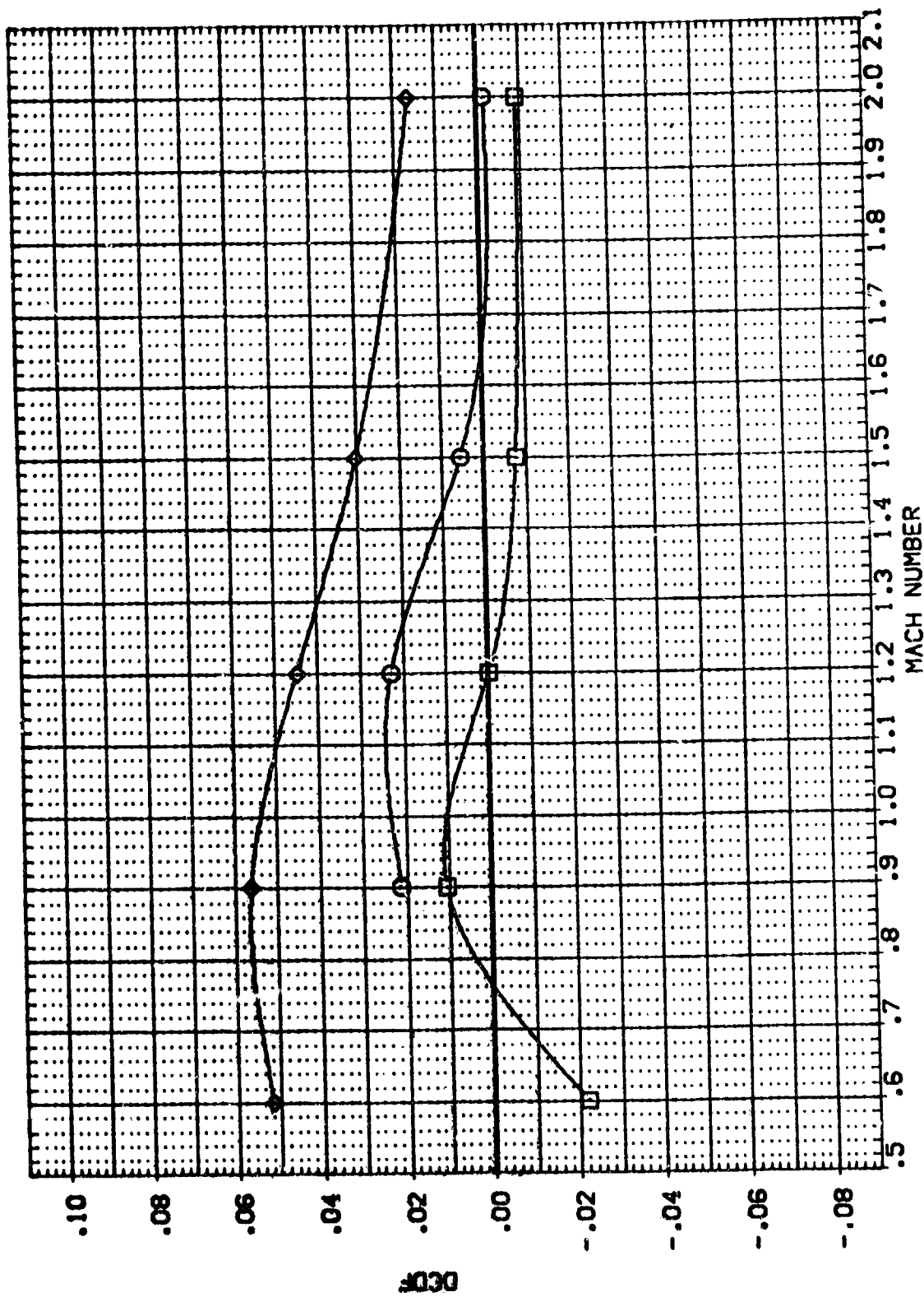


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(*) ALPHA = 10.00



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
AVES 66-706	□	8A43 810 CS D7 H3 F4 V87E18 V59S	-14.200	-40.000	54.900	.000	SRF 2650.0000 50.FT.
AVES 66-706	◇	8A43 810 CS D7 H3 F4 V87E18 V59S	-14.200	-20.000	54.500	.000	LREF 474.8000 IN.
AVES 66-706	◇	8A43 810 CS D7 H3 F4 V87E18 V59S	-14.200	10.000	54.500	.000	BREF 936.6800 IN.
							XREF 1076.4800 IN.
							YREF 400.0000 IN.
							ZREF 400.0000 IN.
							SCALE .0150

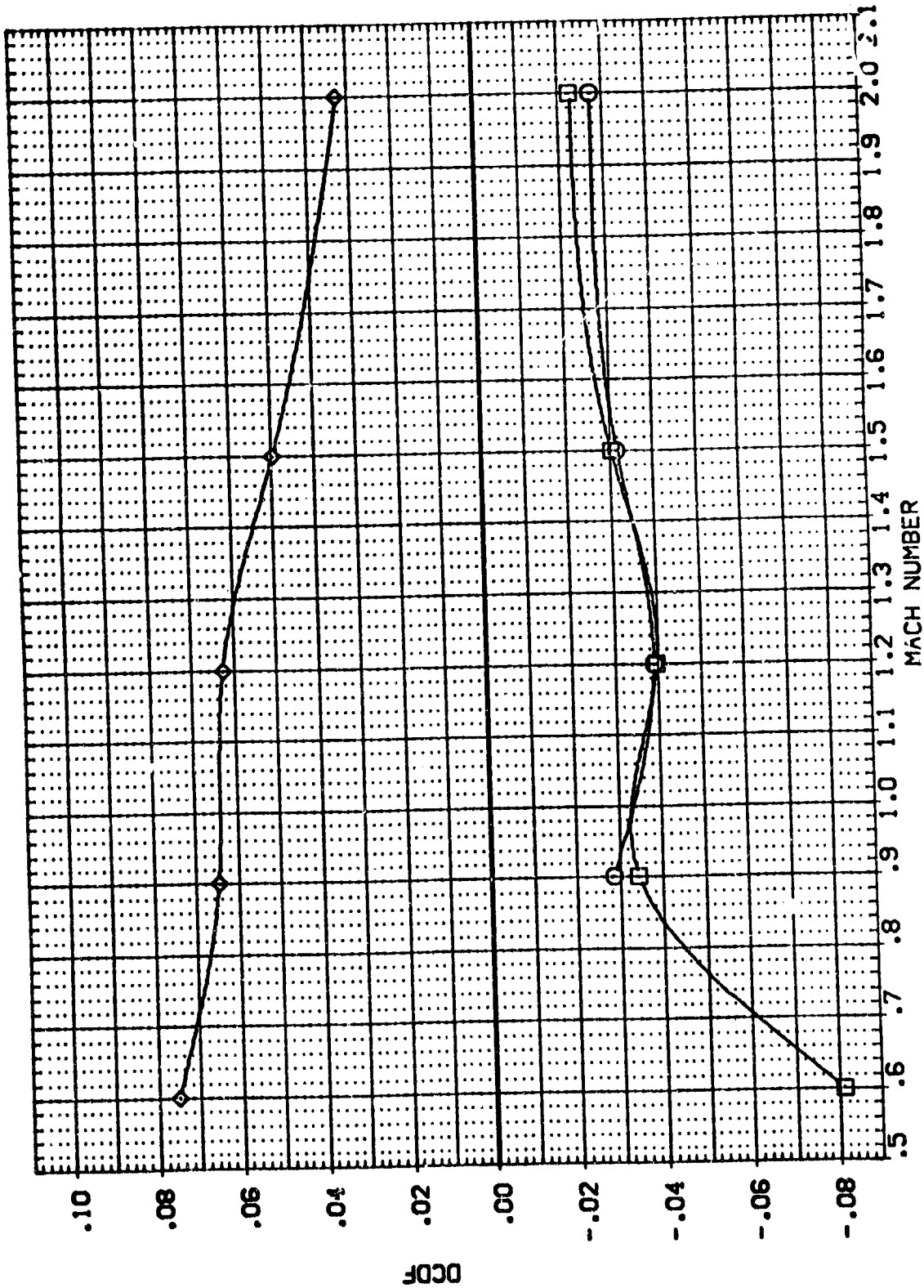


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS
(C) ALPHA = 20.0C

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION	
(UBT005)	AVES 66-705 0A43 B10 C5 07 M3 F4 W87E18 V5R5	-14.200	-40.000	54.500	.000	SREF	2630.0000
(UBT022)	AVES 66-705 0A43 B10 C5 07 M3 F4 W87E18 V5R5	-14.200	-20.000	54.500	.000	LREF	474.8000
(UBT005)	AVES 66-705 0A43 B10 C5 07 M3 F4 W87E18 V5R5	-14.200	10.000	54.500	.000	BREF	936.6800
						XREF	1076.4800
						YREF	.0000
						ZREF	400.0000
						SCALE	.0150
							90.FT.
							IN.
							IN.
							IN.
							IN.
							IN.

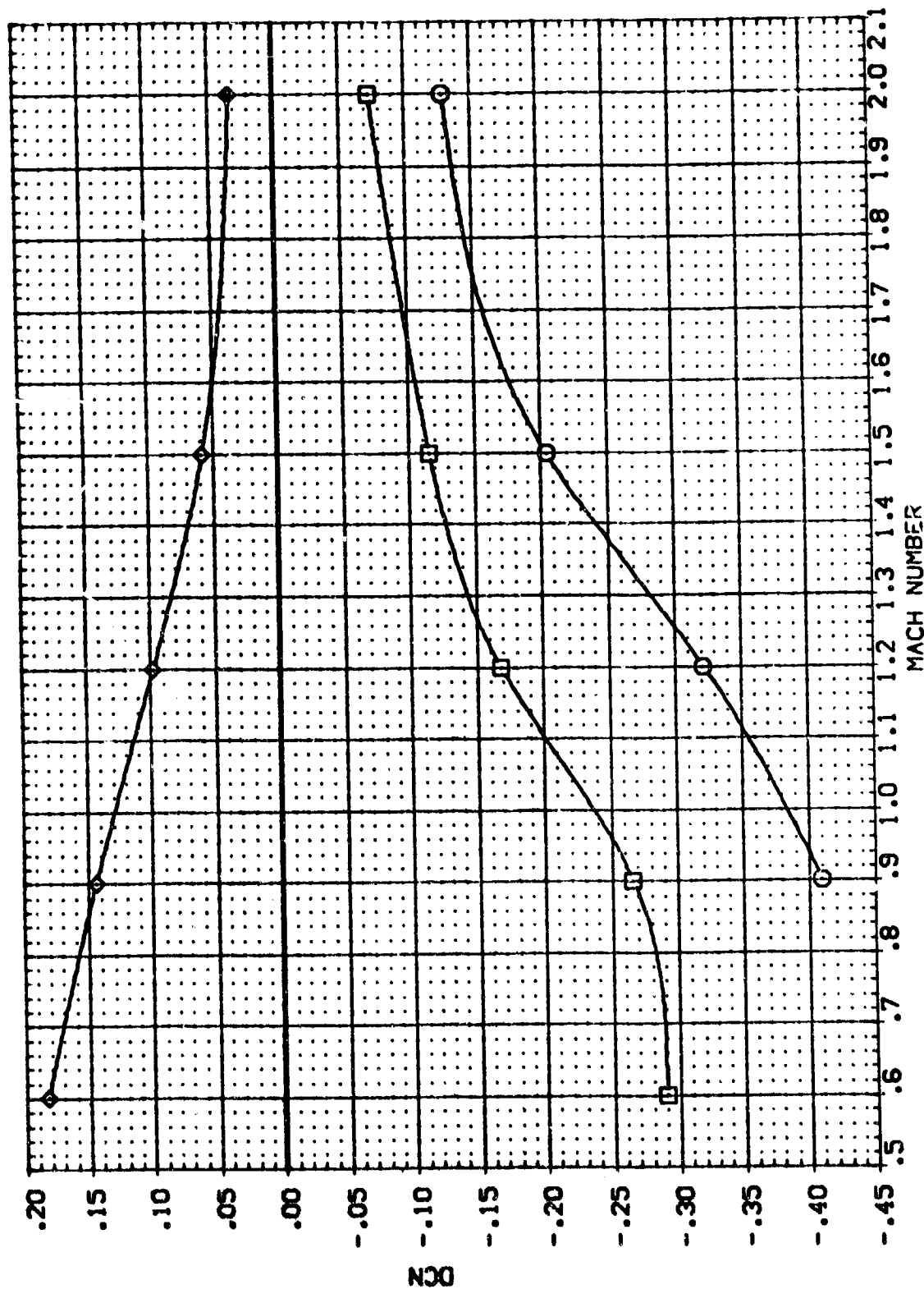


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(α)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPURIN	RUDDER	REFERENCE INFORMATION
(L8T006)	AVES 66-706 0M43 B10 CS D7 M3 F4 W87E18 V593	-14.200	-40.000	54.500	.000	SREF 2650.0000
(L8T022)	AVES 66-706 0M43 B10 CS D7 M3 F4 W87E18 V593	-14.200	-20.000	54.500	.000	LREF 474.8000
(L8T005)	AVES 66-706 0M43 B10 CS D7 M3 F4 W87E18 V593	-14.200	10.000	54.500	.000	BREF 936.6800
						YREF 1076.4800
						ZREF 400.0000
						SCALE .0150

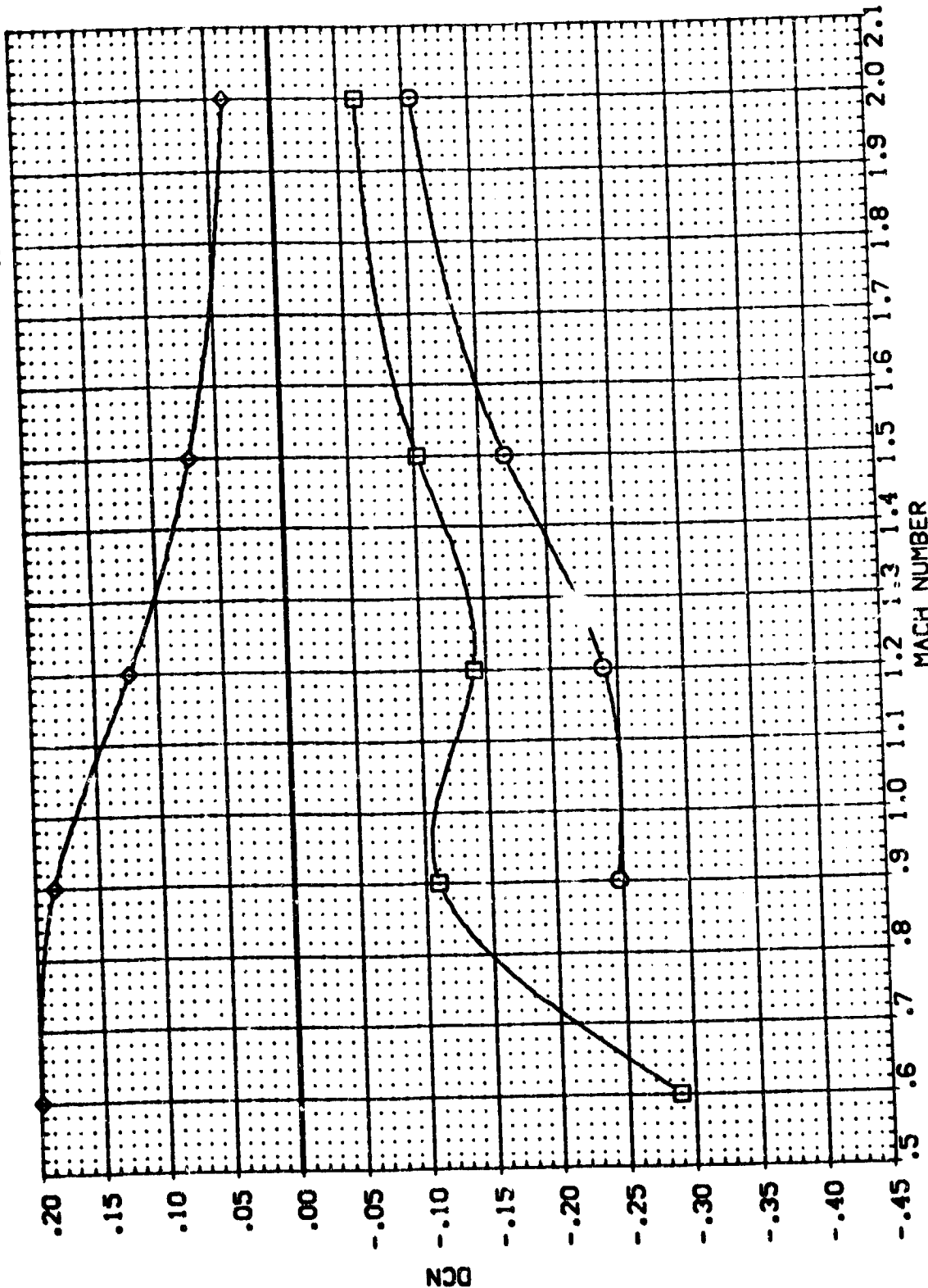


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOROK	RUDDER	REFERENCE INFORMATION
(LBT008)	AVES 65-705 OM3 B10 CS D7 K3 F4 V87E18 V5R5	-14.200	-40.000	54.900	.000	SREF 2630.0000 SQ.FT.
(LBT022)	AVES 65-705 OM3 B10 CS D7 K3 F4 V87E18 V5R5	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(LBT005)	AVES 65-705 OM3 B10 CS D7 K3 F4 V87E18 V5R5	-14.200	10.000	54.900	.000	BREF 936.5800 IN.
						YMRP 1076.4800 IN.
						ZMRP .0000 IN.
						SCALE 400.0000 IN.
						SCALE .0150

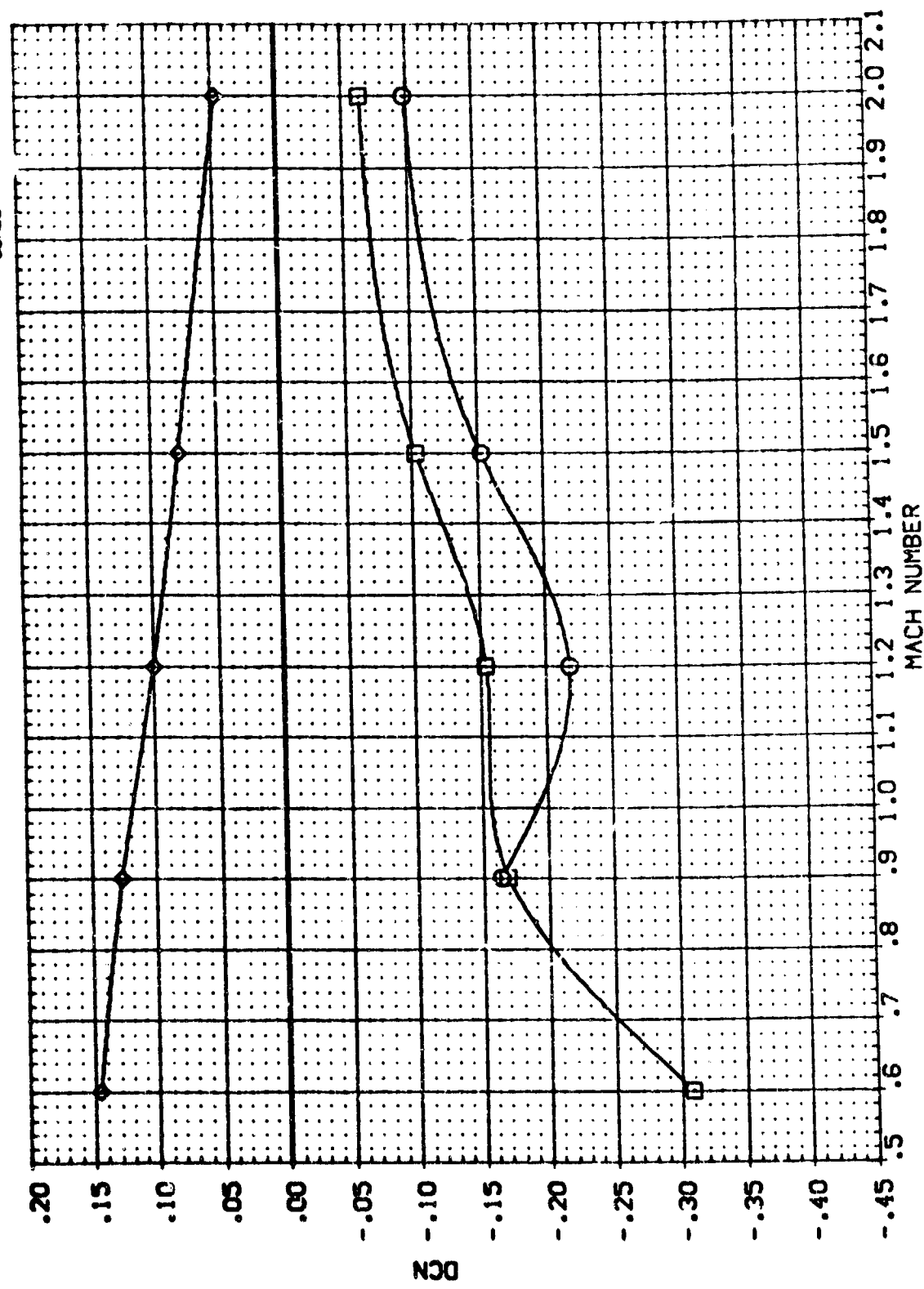


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS
[C]ALPHA = 20.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(UBT005)	AVES 55-705 DA13 B10 CS D7 M3 F4 V87E18 VSR3	-14.200	-40.000	54.900	.000	SREF 2690.0000 SQ.FT.
(UBT002)	AVES 55-705 DA13 B10 CS D7 M3 F4 V87E18 VSR3	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(UBT005)	AVES 55-705 DA13 B10 CS D7 M3 F4 V87E18 VSR3	-14.200	10.000	54.900	.000	BREF 936.8800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

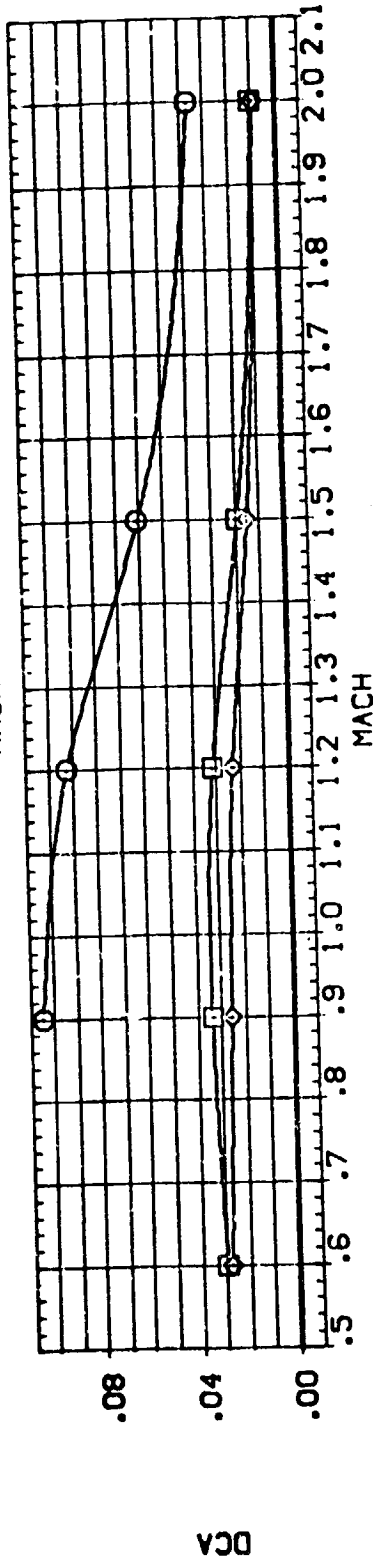
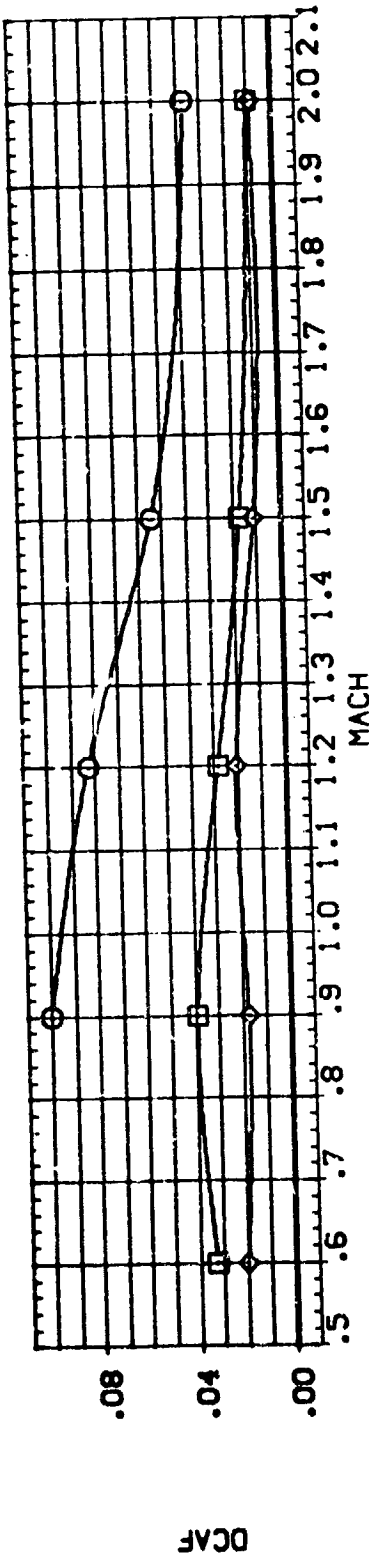
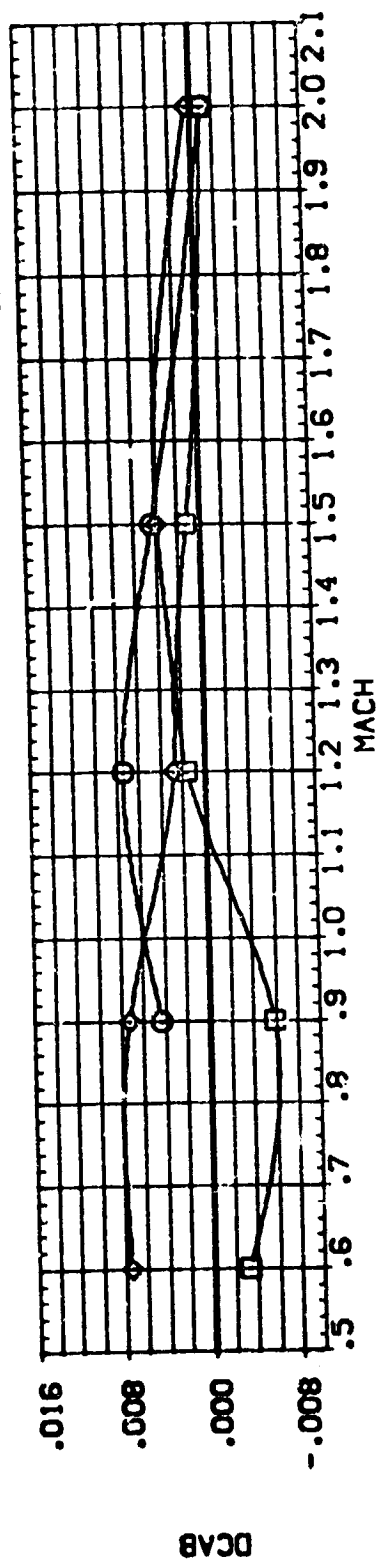


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(L81005)	AVES 66-706 0A43 810 CS D7 M3 F4 V87E18 VS95	-14.200	-40.000	54.900	.000	SREF 2690.0000 SQ.FT.
(L81022)	AVES 66-706 0A43 810 CS D7 M3 F4 V87E18 VS95	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(L81005)	AVES 66-706 0A43 810 CS D7 M3 F4 V87E18 VS95	-14.200	10.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

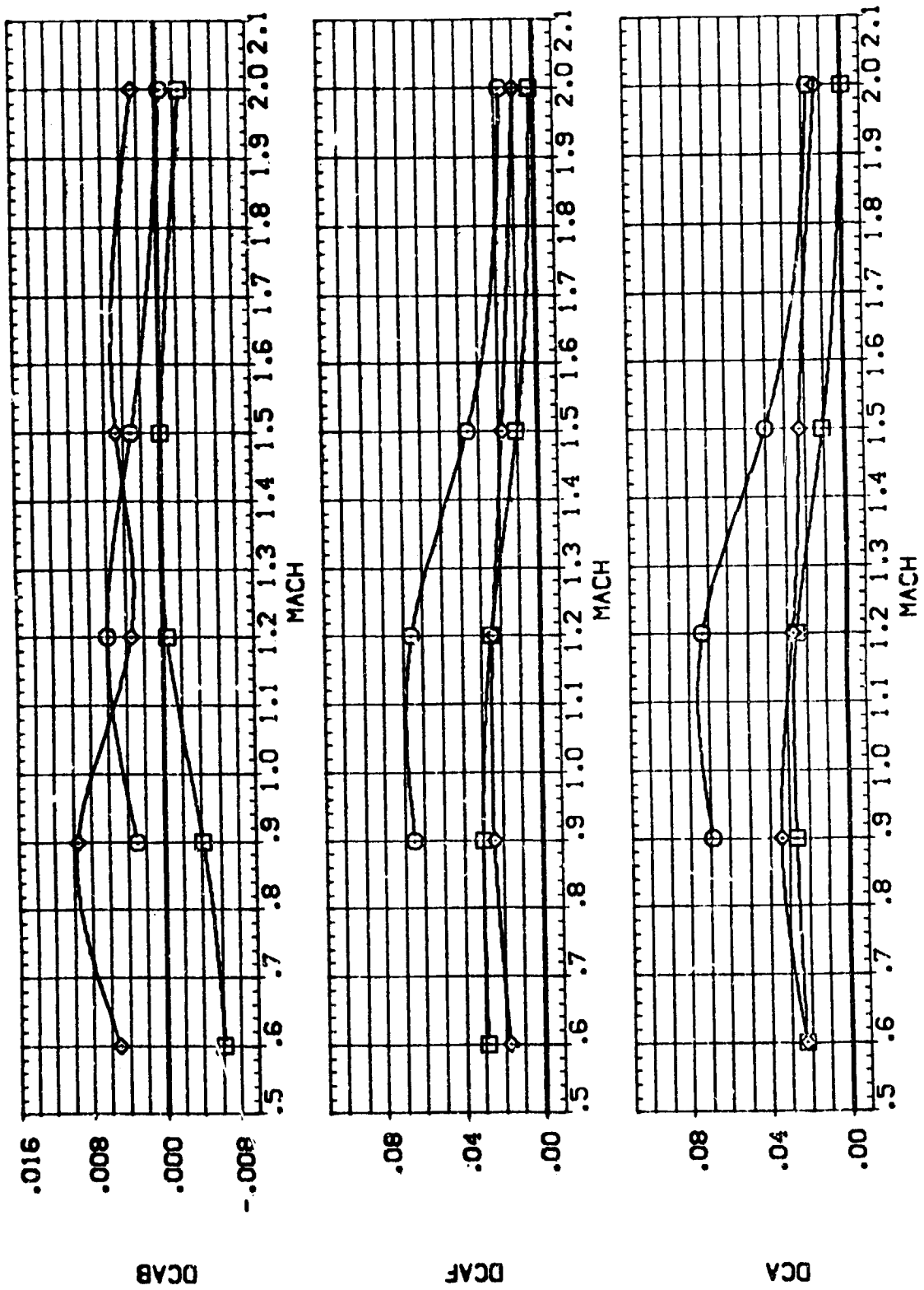


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(B) ALPHA = 10.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB1005)	AVES 66-705 OA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	SREF 2690.0000 SQ.FT.
(UB1022)	AVES 66-705 OA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	LREF 474.8000 IN.
(UB1005)	AVES 66-705 OA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

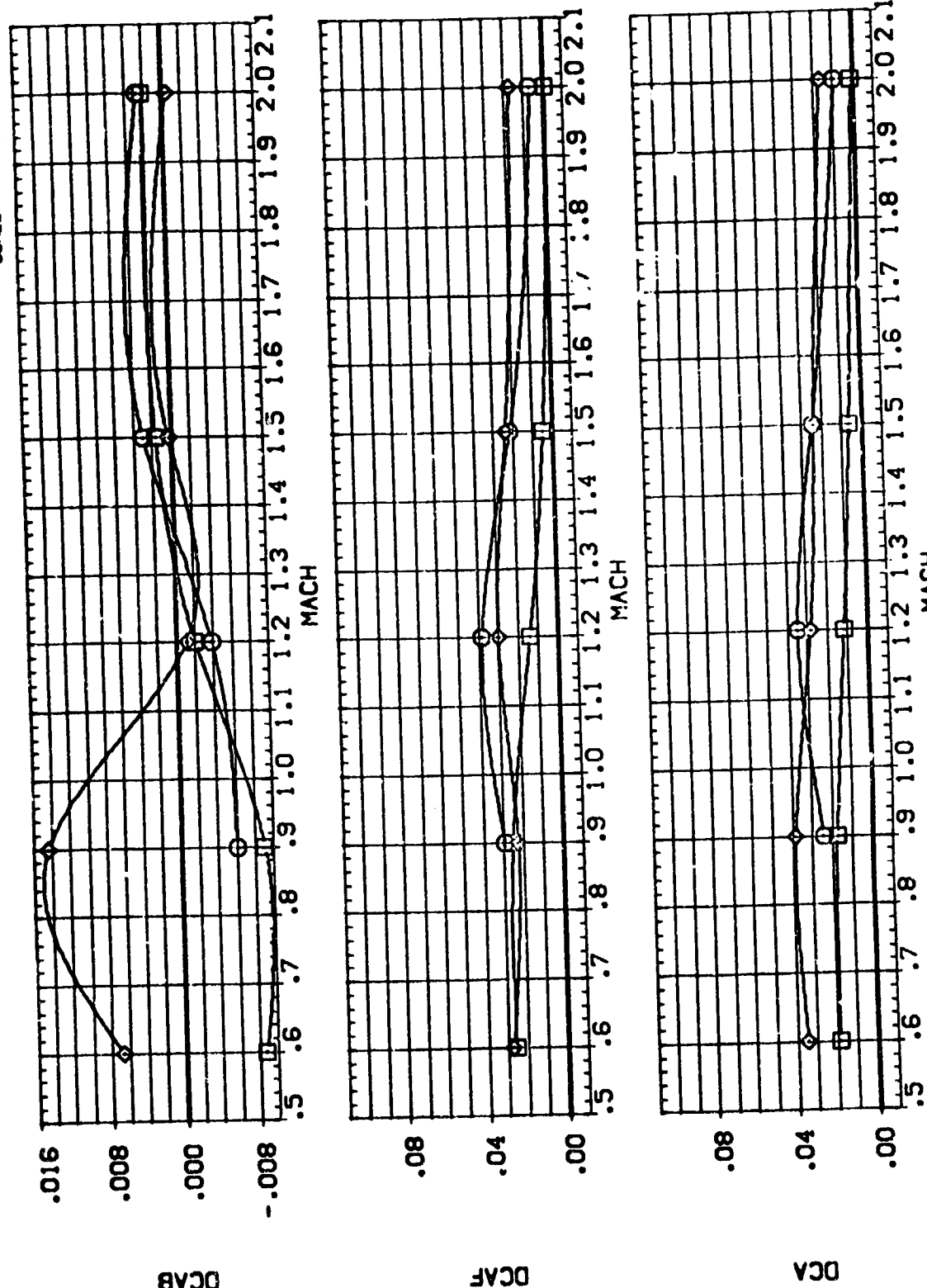


FIG. 2 INCREMENTAL EFFECT OF DEFLECTED ELEVONS
(C)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	SPUBRK	RUDER	REFERENCE INFORMATION
(UB1005)	APES 66-706 DA13 B10 CS D7 K3 F4 V87E18 V593	-14.200	-40.000	.000	.000	SREF 2690.0000 50.000
(UB1007)	APES 66-706 DA13 B10 CS D7 K3 F4 V87E18 V593	-14.200	-20.000	.000	.000	LREF 474.8000 IN.
(UB1005)	APES 66-706 DA13 B10 CS D7 K3 F4 V87E18 V593	-14.200	10.000	.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

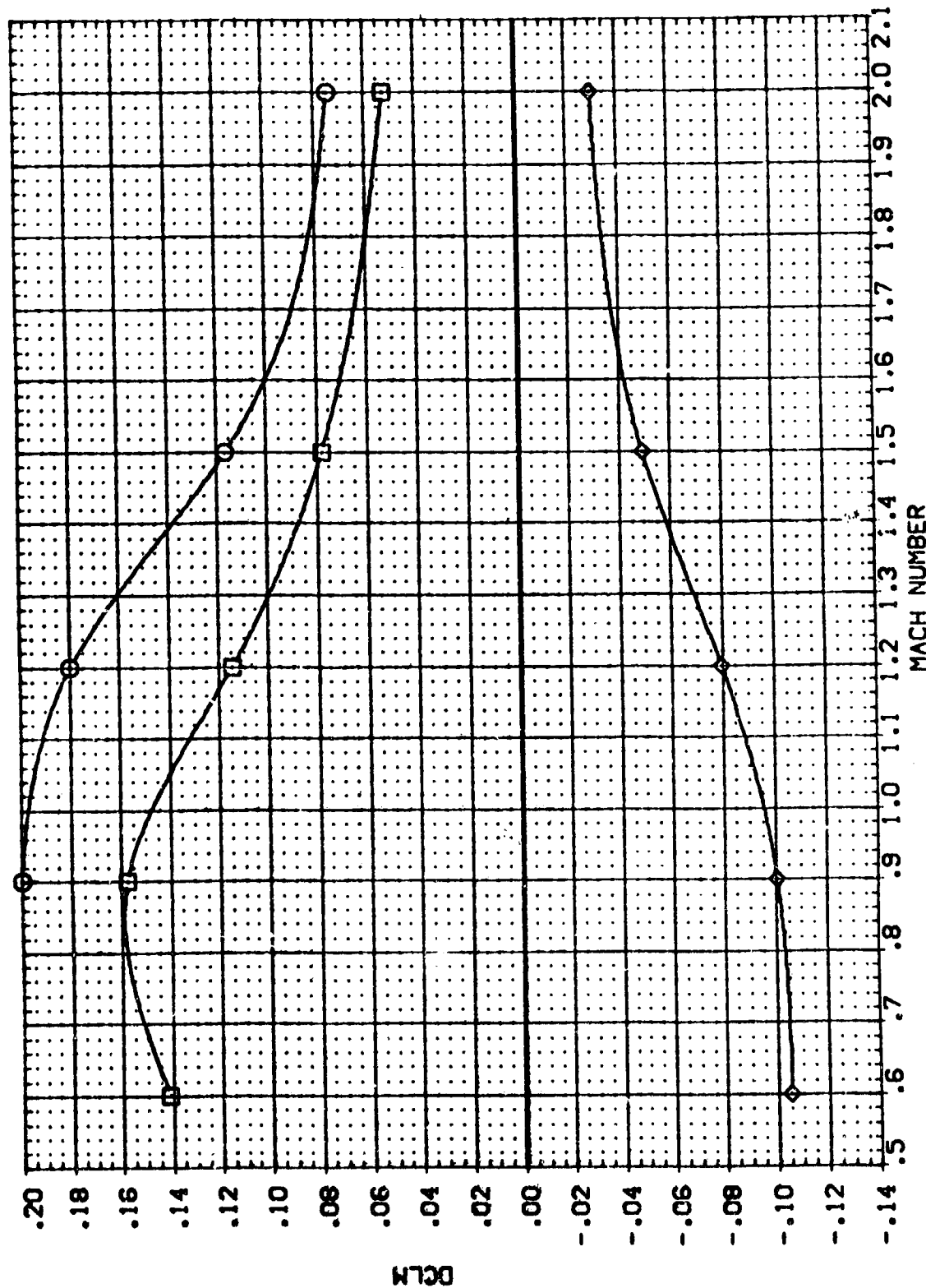


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(α) ALPHA = .00



DATA SET SYMBL.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(181005)	AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-10.000	54.900	.000	SREF 2680.0000 SQ.FT.
(181022)	AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	LREF 474.5000 IN.
(181005)	AVES 65-705 DM3 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	BREF 536.6800 IN.
						YARP 1076.4800 IN.
						ZARP 100.0000 IN.
						SCALE .0150

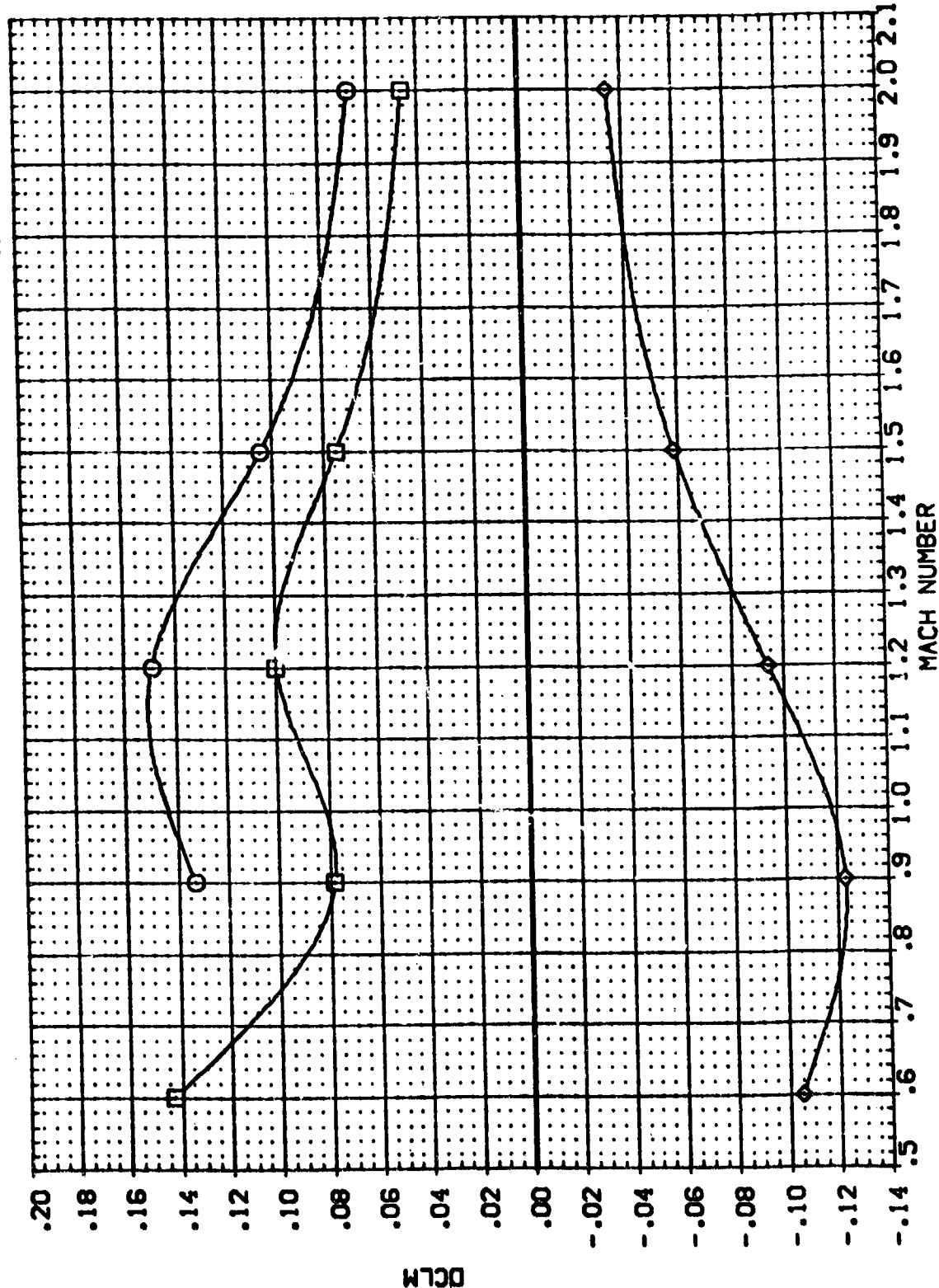


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(B)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODY L/P	ELEVON	SPORON	FLUDDER	REFERENCE INFORMATION
(L8T005)	AWES 66-706 0M43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	-10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(L8T022)	AWES 66-706 0M43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(L8T005)	AWES 66-706 0M43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	10.000	54.900	.000	BREF 936.8800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

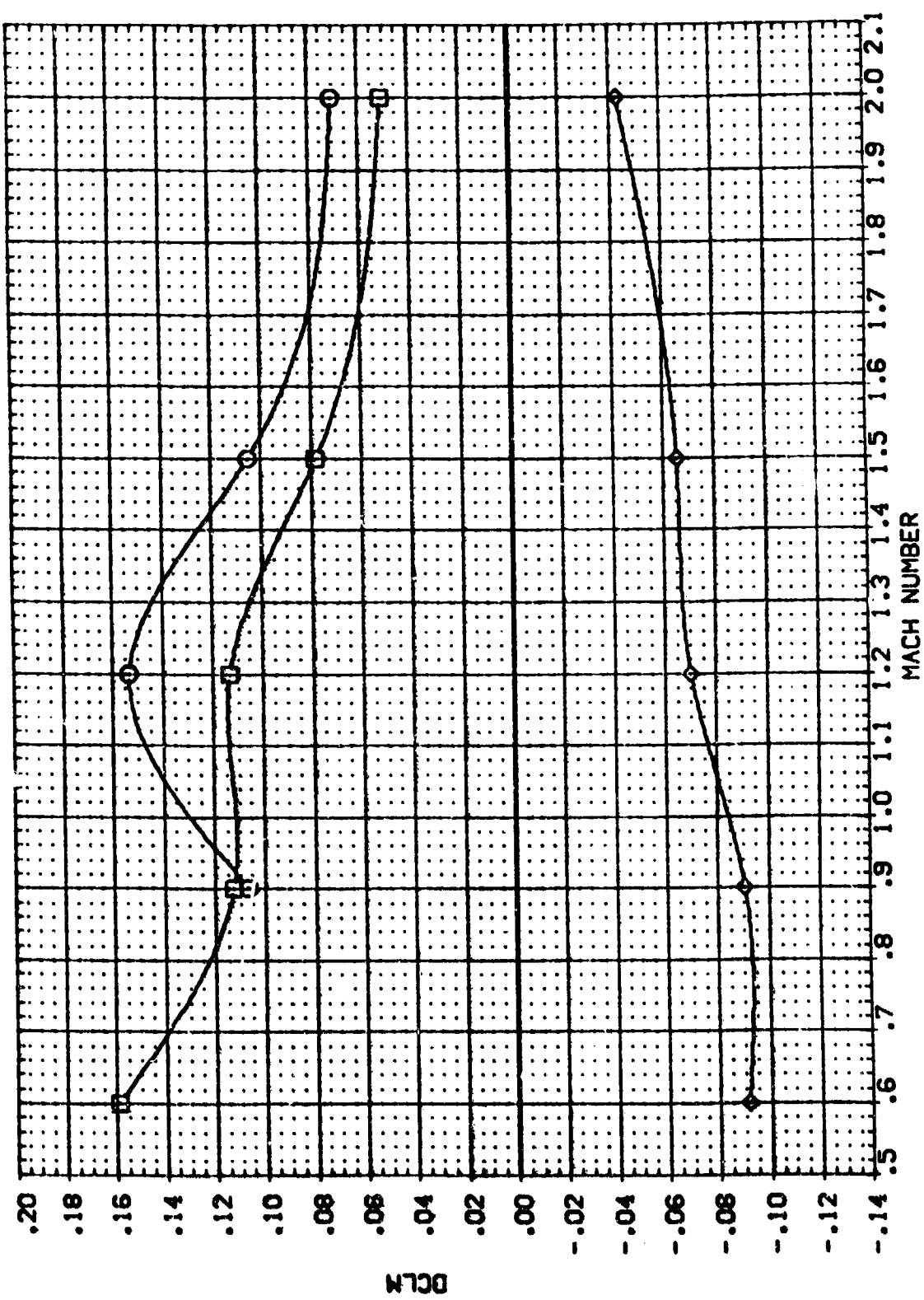


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS

(C) ALPHA = 20.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPUSBK	RUDDER	REFERENCE INFORMATION
(V81005)	APES 66-706 0M43 810 CS D7 F4 V87E18 V35S	-14.200	-40.000	54.900	.000	SREF 2880.0000 SO.FT.
(V81022)	APES 66-706 0M43 810 CS D7 F4 V87E18 V35S	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(V81005)	APES 66-706 0M43 810 CS D7 F4 V87E18 V35S	-14.200	10.000	54.900	.000	XREF 906.8000 IN.
						YREF 1103.2000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

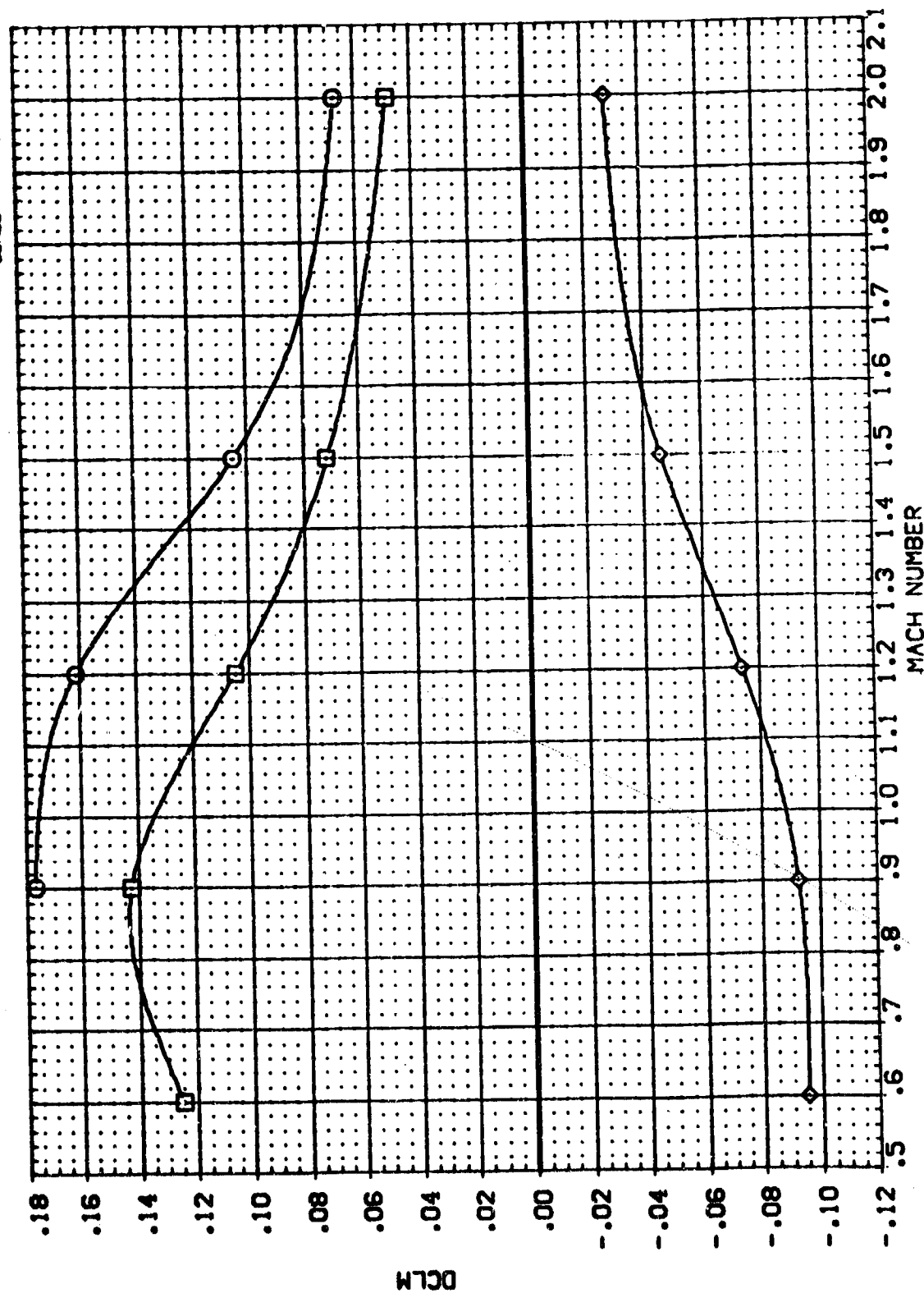


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)

(A) ALPHA = .00

DATA SET SYMBOL: [V81005] [V81022] [V81005]

CONFIGURATION DESCRIPTION: AYES 88-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 88-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 88-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRK RUDDER REFERENCE INFORMATION

BOOFLP	ELEVON	SPOBRK	RUDDER	REF	IN.	90.FT.
-14.200	-10.000	51.500	.000	SRF	2650.0000	90.0000
-14.200	-10.000	51.500	.000	LRP	474.8000	90.0000
-14.200	-10.000	51.500	.000	BRF	936.6800	90.0000
				YPRP	1103.2400	90.0000
				ZPRP	400.0000	90.0000
				SCALE	.0150	90.0000

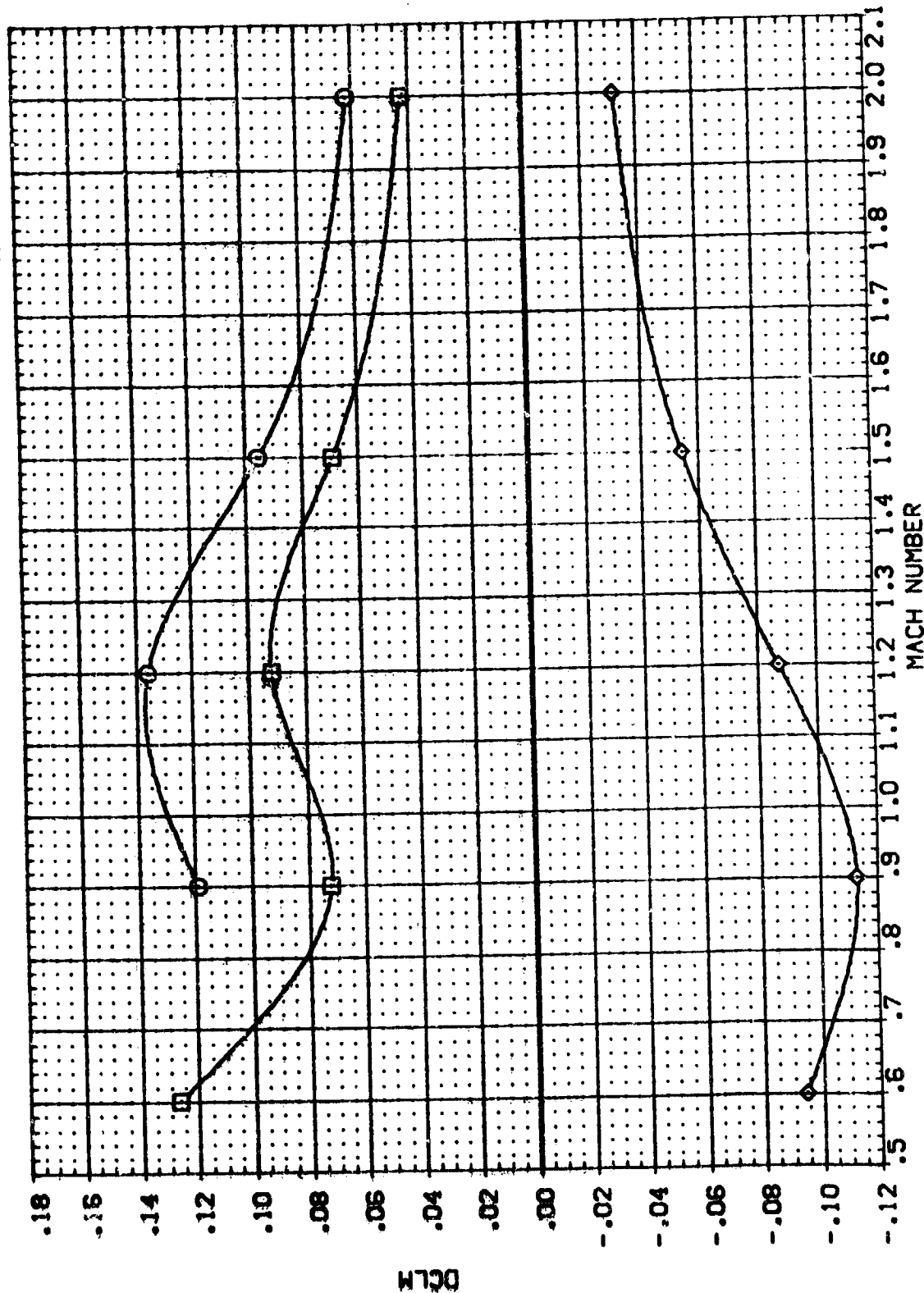


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVONS (AFT C.G.)

{B}ALPHA = 10.00



DATA SET SYMB.	CONFIGURATION	DESCRIPTION	RODFUP	ELEVON	SPOBRK	BLUDDR	REFERENCE INFORMATION
(V87005)	APES 66-705	CM3 B10 CS D7 M3 F4 V87E18 V3R5	-14.200	-40.000	54.500	.000	SREF 2630.0000 50.000
(V87022)	APES 66-705	CM3 B10 CS D7 M3 F4 V87E18 V3R5	-14.200	-20.000	54.500	.000	LREF 474.8000 IN.
(V87005)	APES 66-705	CM3 B10 CS D7 M3 F4 V87E18 V3R5	-14.200	10.000	54.500	.000	SREF 1103.2400 IN.
							XREF .0000 IN.
							YREF .0000 IN.
							ZREF .0000 IN.
							SCALE .0150 SCALE

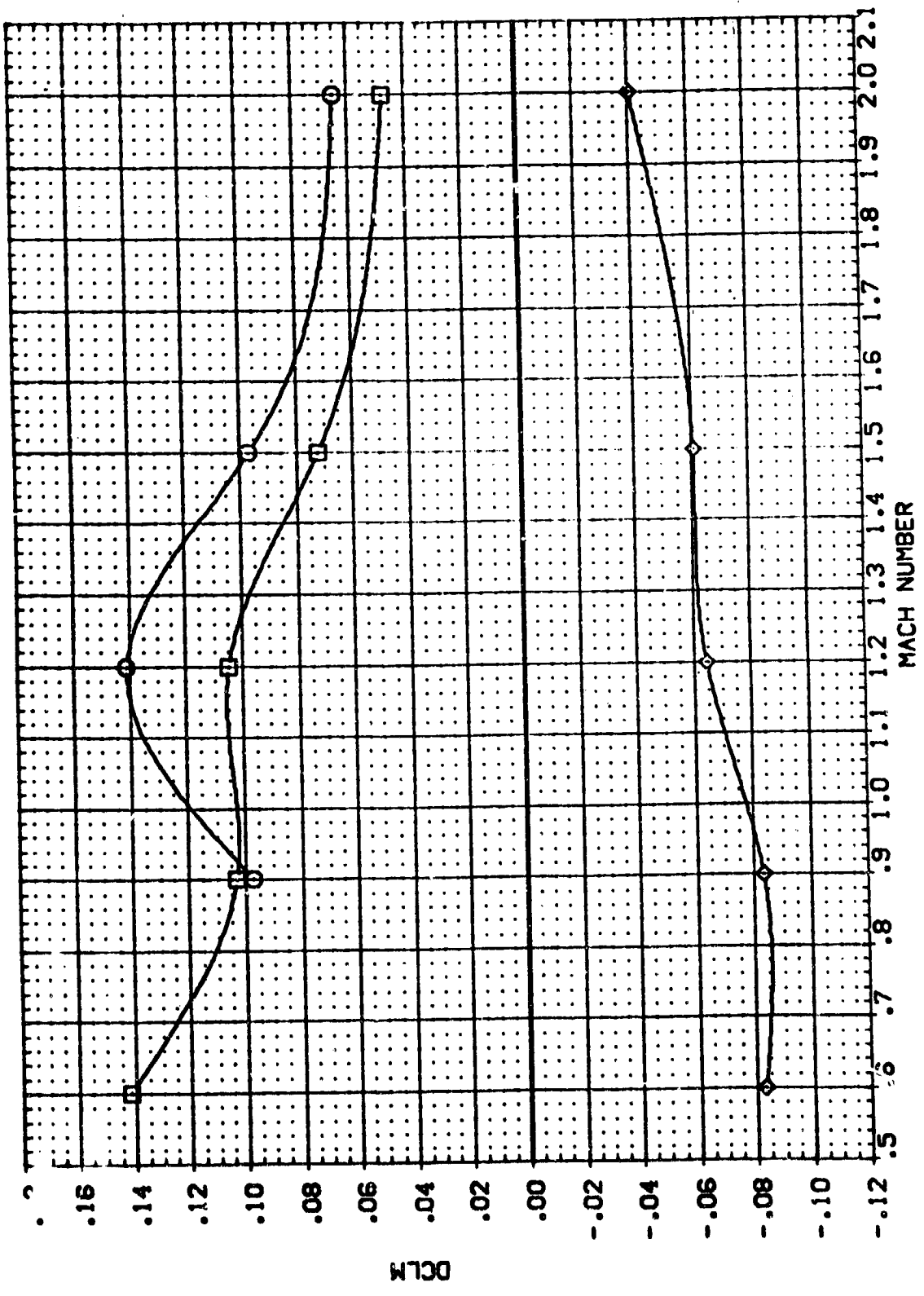


FIG. 8 INCREMENTAL EFFECT OF DEFLECTED ELEVLONS (AFT C.G.)

(C) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	GEOSLP	ELEVON	SPOONK	RUDLER	REFERENCE INFORMATION
(18T004)	AVES 68-706 DM3 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	24.900	.000	SWF 2630.0000 90.FT.
(18T024)	AVES 68-706 DM3 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BRKF 936.8800 IN.
						XTRP 1076.4800 IN.
						YTRP 400.0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150 SCALE

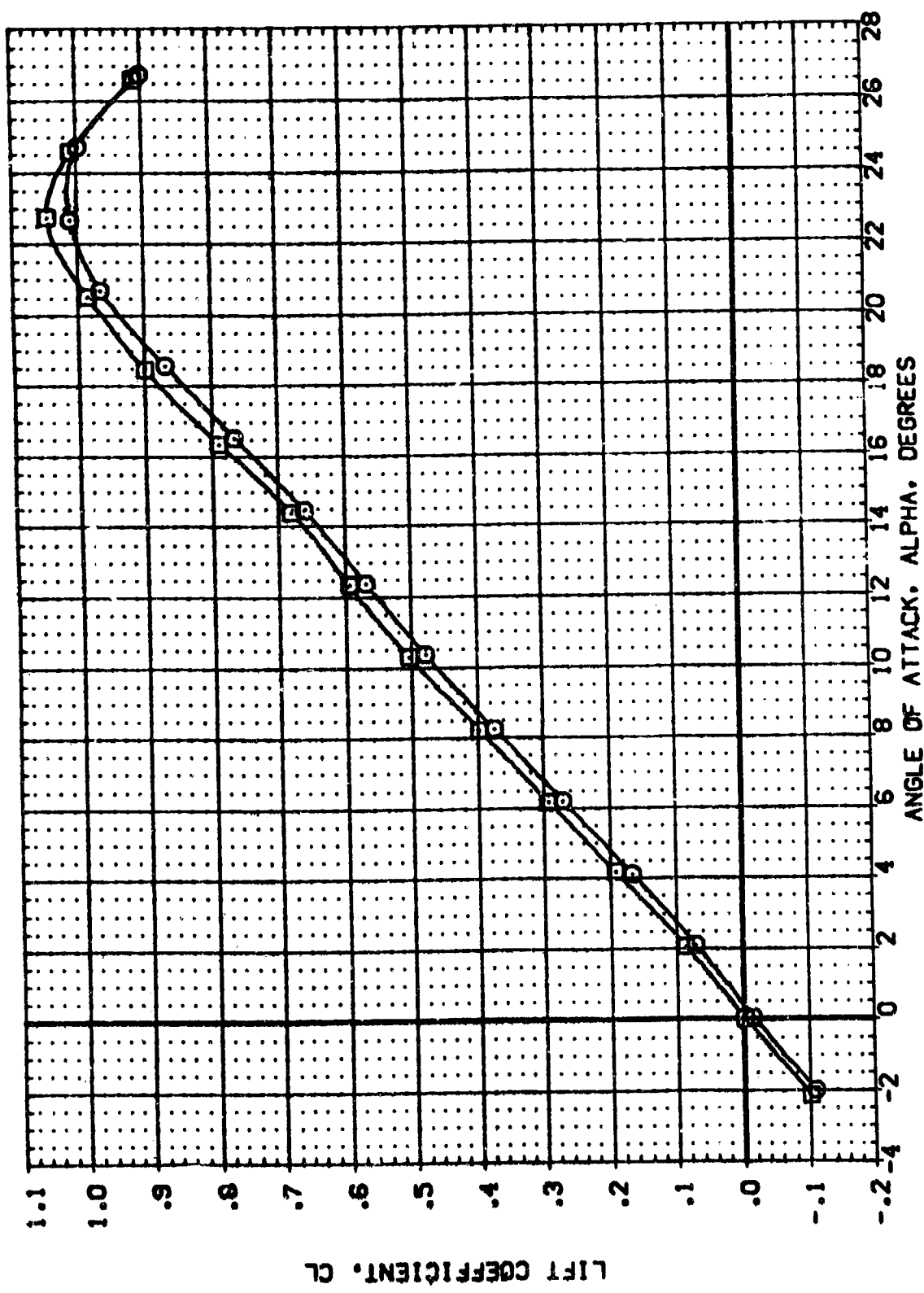


FIG. 9 SPEED BRAKE DEFLECTED

(M)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(187004)	AVES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(187024)	AVES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

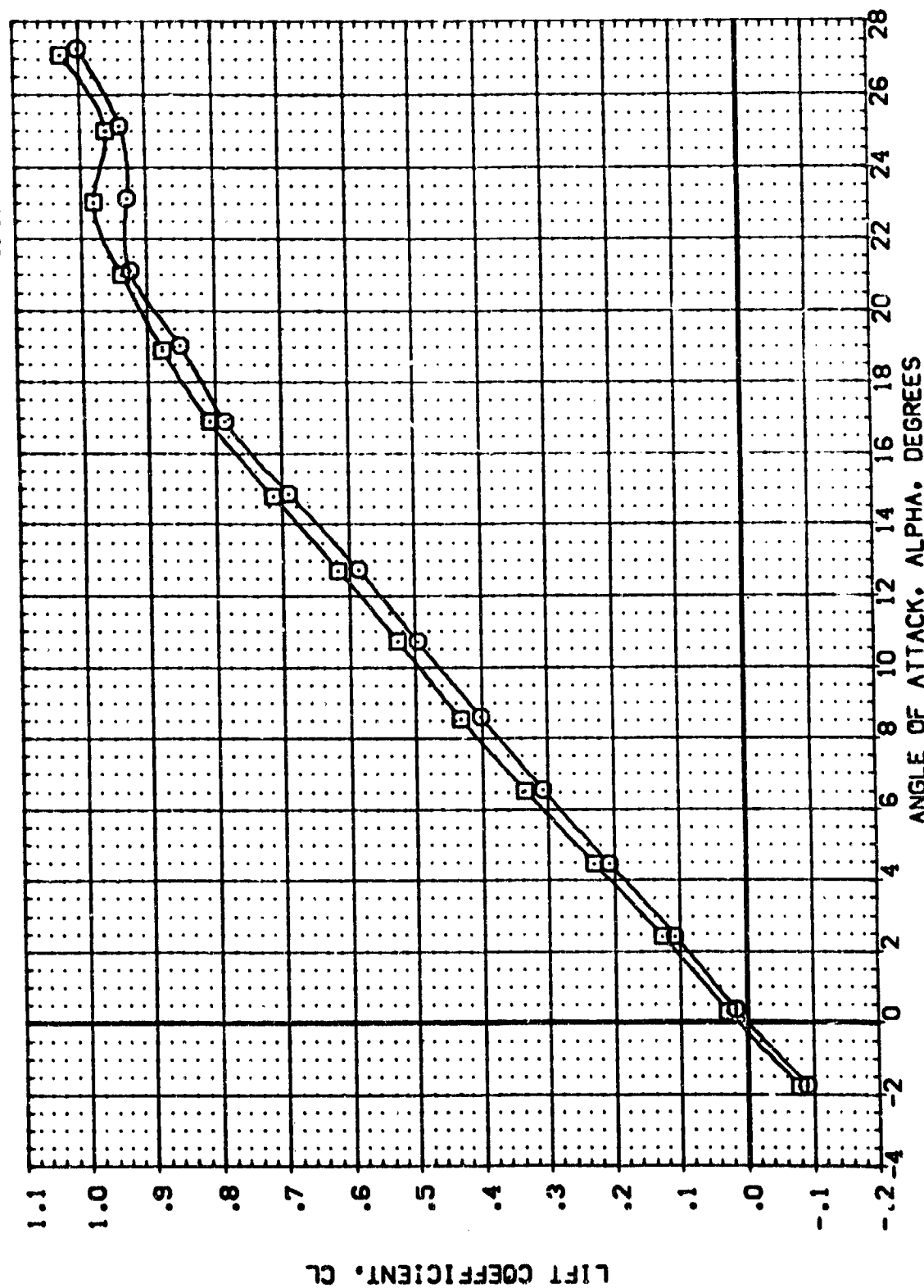


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOPLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(18T024)	APES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF	2690.0000
(18T024)	APES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	24.900	.000	LREF	474.8000
						BREF	936.6800
						YMRP	1076.4800
						ZMRP	400.0000
						SCALE	.015C
							50. FT.

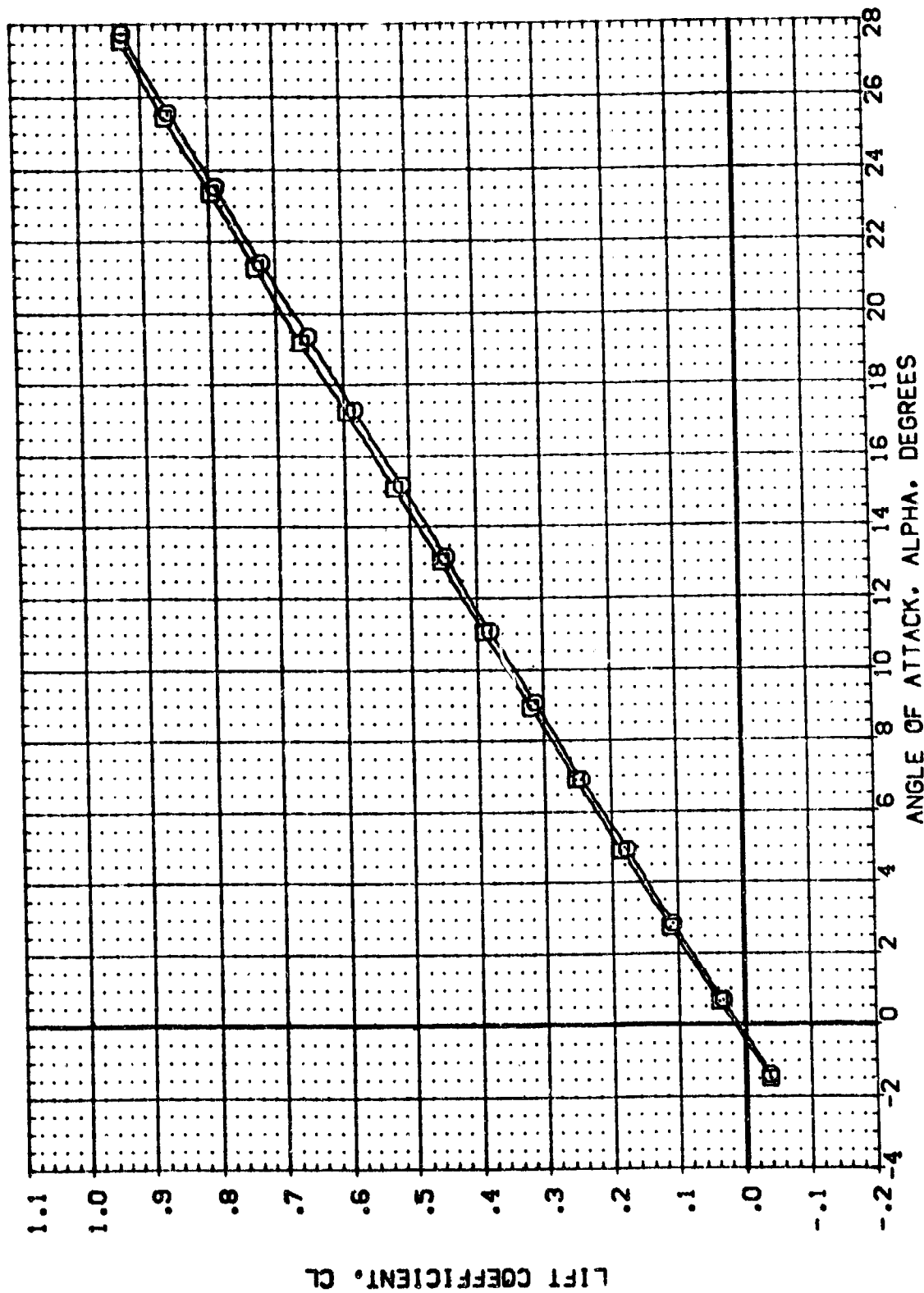


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(18T024)	(18T024)	A-ES 65-705	CM3 B10 CS D7 M3 F4 V87E18 VSR5	SREF	2690.0000 SQ.FT.
(18T024)	(18T024)	A-ES 65-705	CM3 B10 CS D7 M3 F4 V87E18 VSR5	LREF	474.8000 IN.
				BREF	936.8800 IN.
				XMRP	1076.4800 IN.
				YMRP	.0000 IN.
				ZMRP	.0000 IN.
				SCALE	.0150

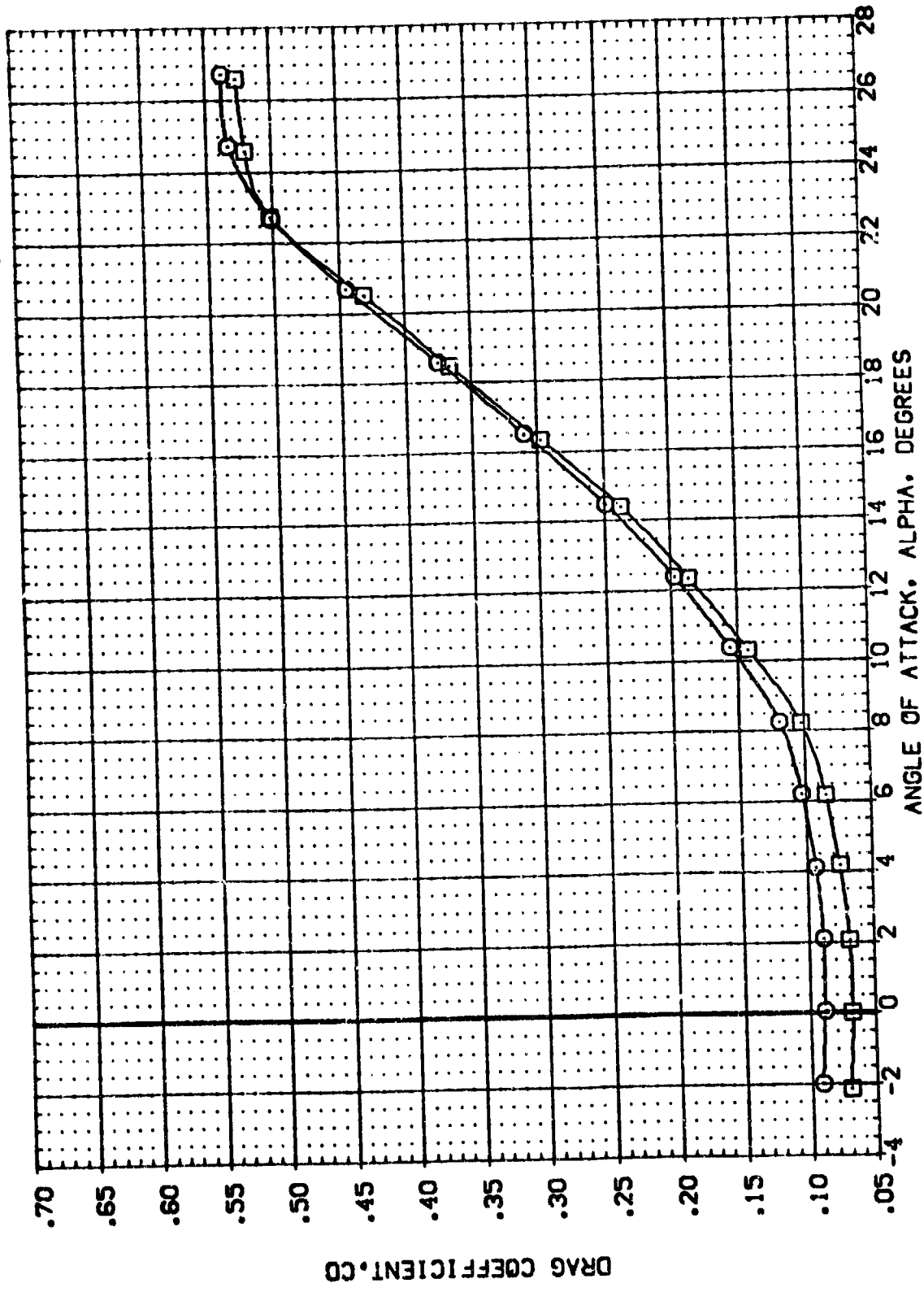


FIG. 9 SPEED BRAKE DEFLECTED

(MACH = .60)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION		
(187024)	Q	AVES 66-706	CA43	B10	CS	D7	M3	F4	V87E18	V54S		SREF	2630.0000	SG.FY.
(187024)	Q	AVES 66-706	CA43	B10	CS	D7	M3	F4	V87E18	V54S		LREF	474.8000	
												BREF	936.6800	
												APRO	1076.4800	
												YPRP	400.0000	
												ZPRP	400.0000	
												SCALE	0.0150	SCALE

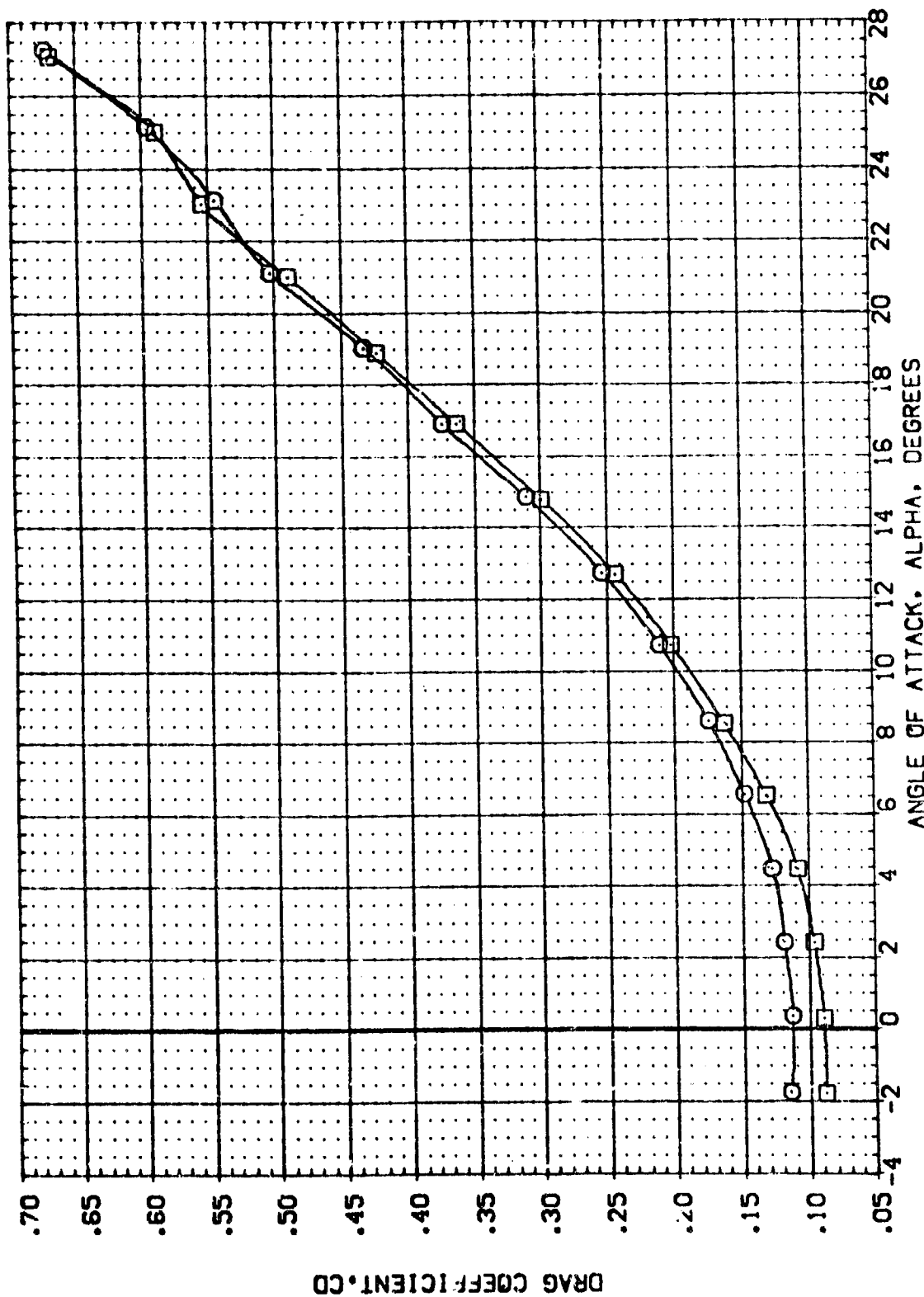


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91



DATA SET SYMBOL: (18T004) (18T024)

CONFIGURATION DESCRIPTION: AYES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSR5 AYES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSR5

BOOFLP: -14.200 -14.200

ELEVON: .000 .000

SPOBRK: 54.900 24.900

RUDDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 174.8000 IN. BREF 936.6800 IN. XREF 1076.4800 IN. YREF .0000 IN. ZREF 400.0700 IN. SCALE 0.50

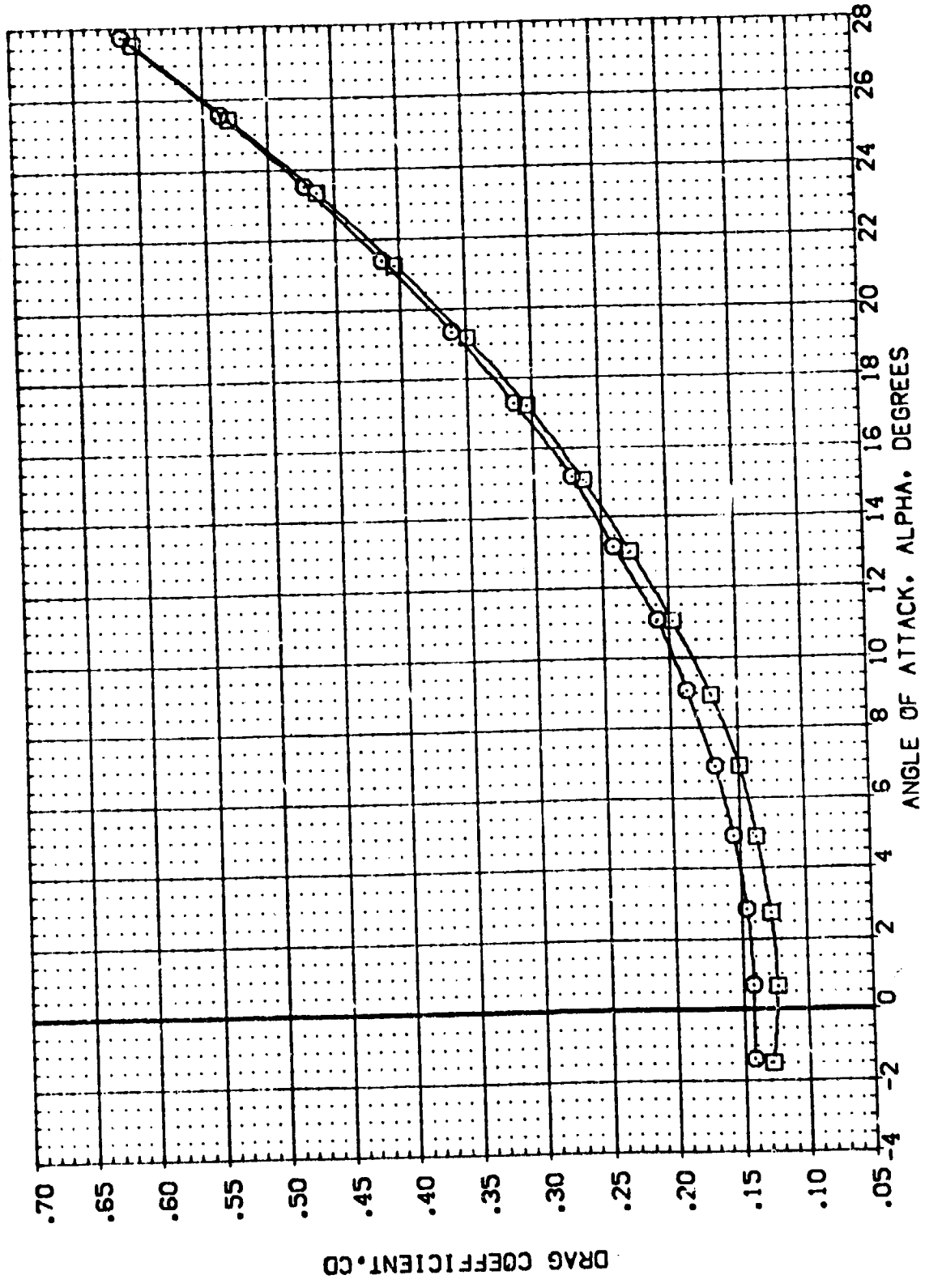


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
{18T004}	AMES 66-706 DA13 B1C C5 D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
{18T024}	AMES 66-706 DA13 B1C C5 D7 M3 F4 V87E18 VSRS	-14.200	.000	24.900	.030	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

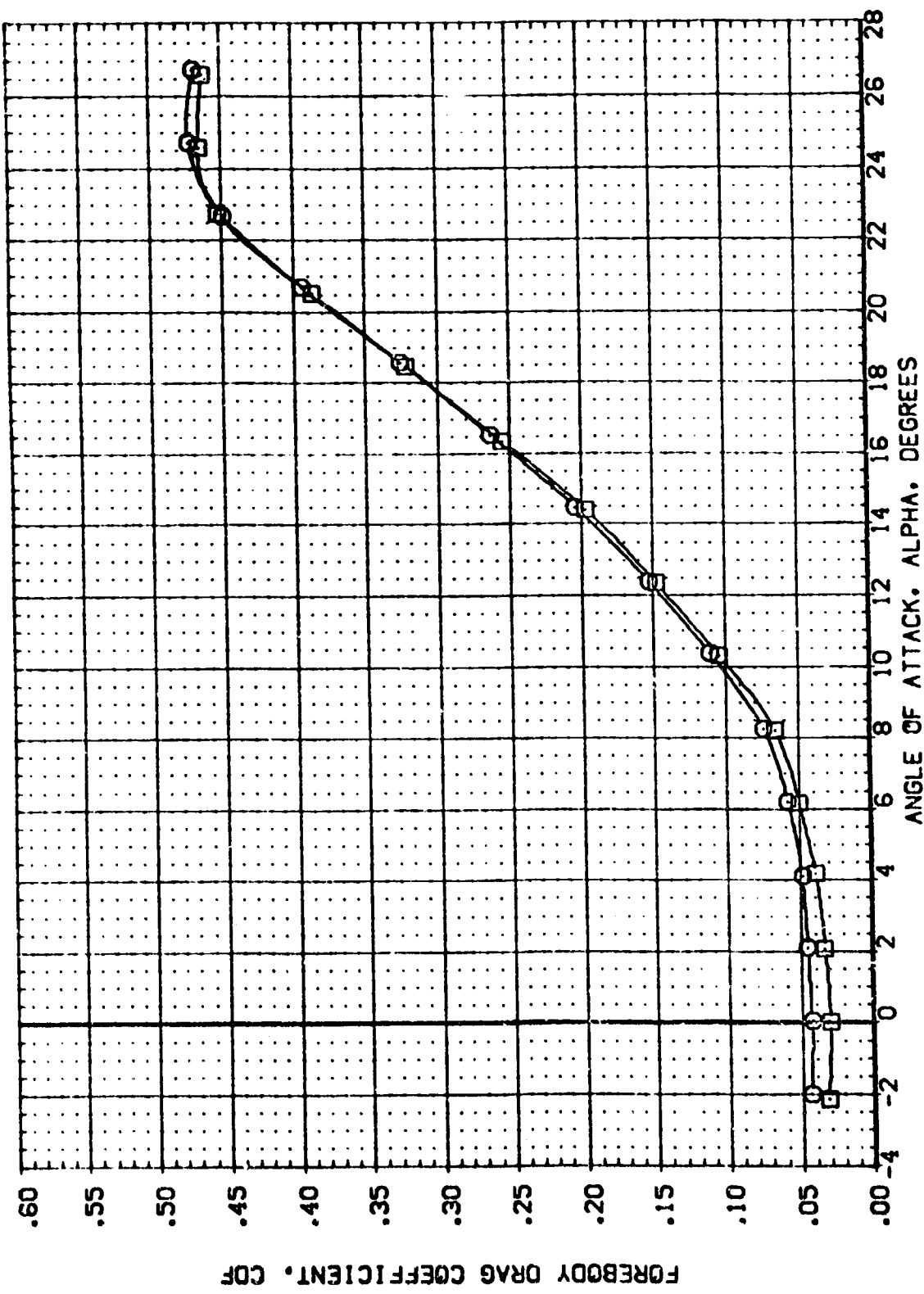


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION	
(187004)	AMES 66-706 QA43 B10 CS D7 M3 F4 V87E18 V5M5	-14.200	.000	54.900	.000	SREF	2690.0000
(187024)	AMES 66-706 QA43 B10 CS D7 M3 F4 V87E18 V5M5	-14.200	.000	24.900	.000	LREF	474.8000
						BREF	936.6800
						XMRP	1076.1800
						YMRP	.0000
						ZMRP	400.0000
						SCALE	.0150
							IN. SCALE

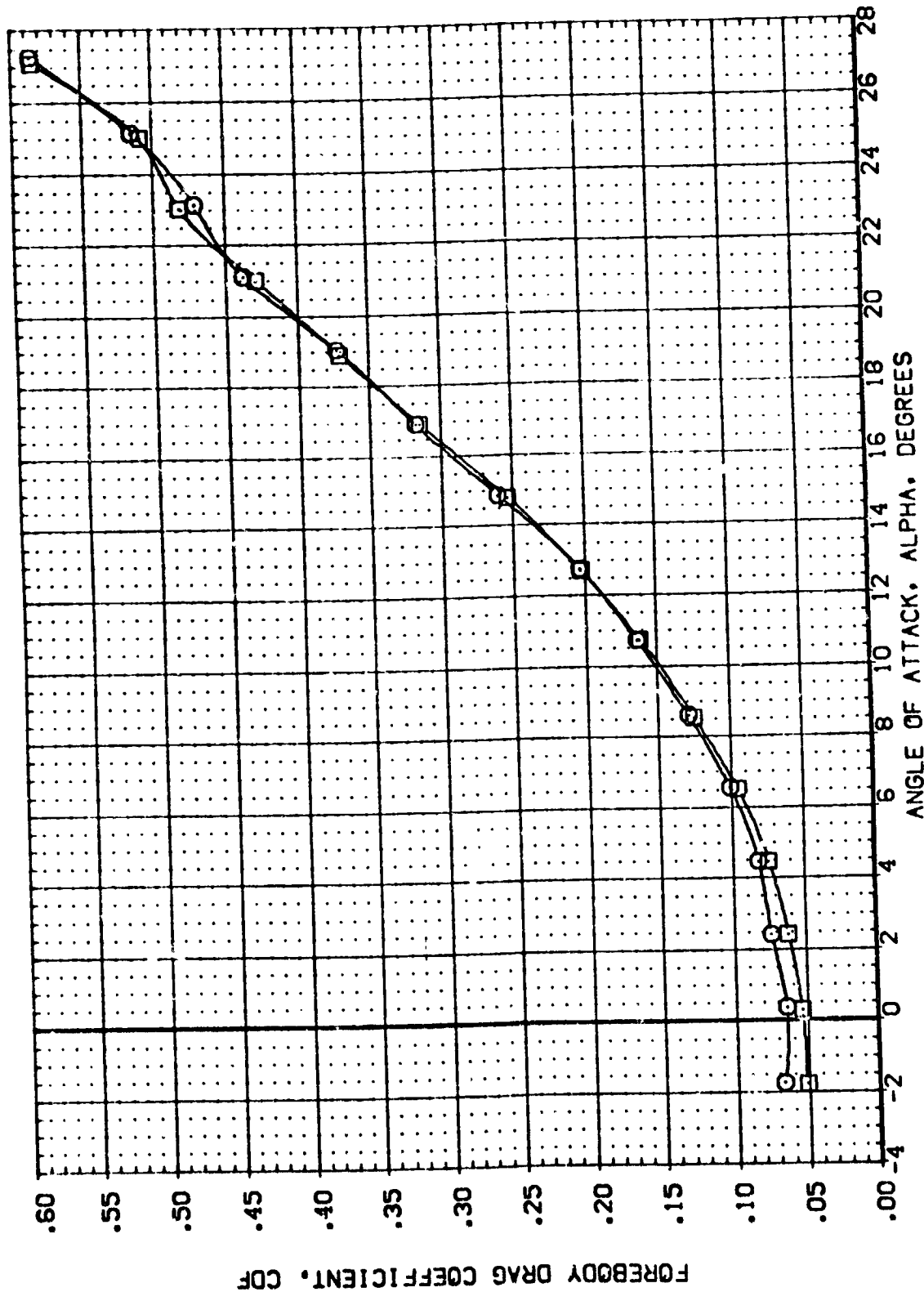


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPODBK	RUDDER	REFERENCE INFORMATION
(18T004)	ANES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
(18T024)	ANES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.8800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE 400.0000 IN.
						SCALE .0150

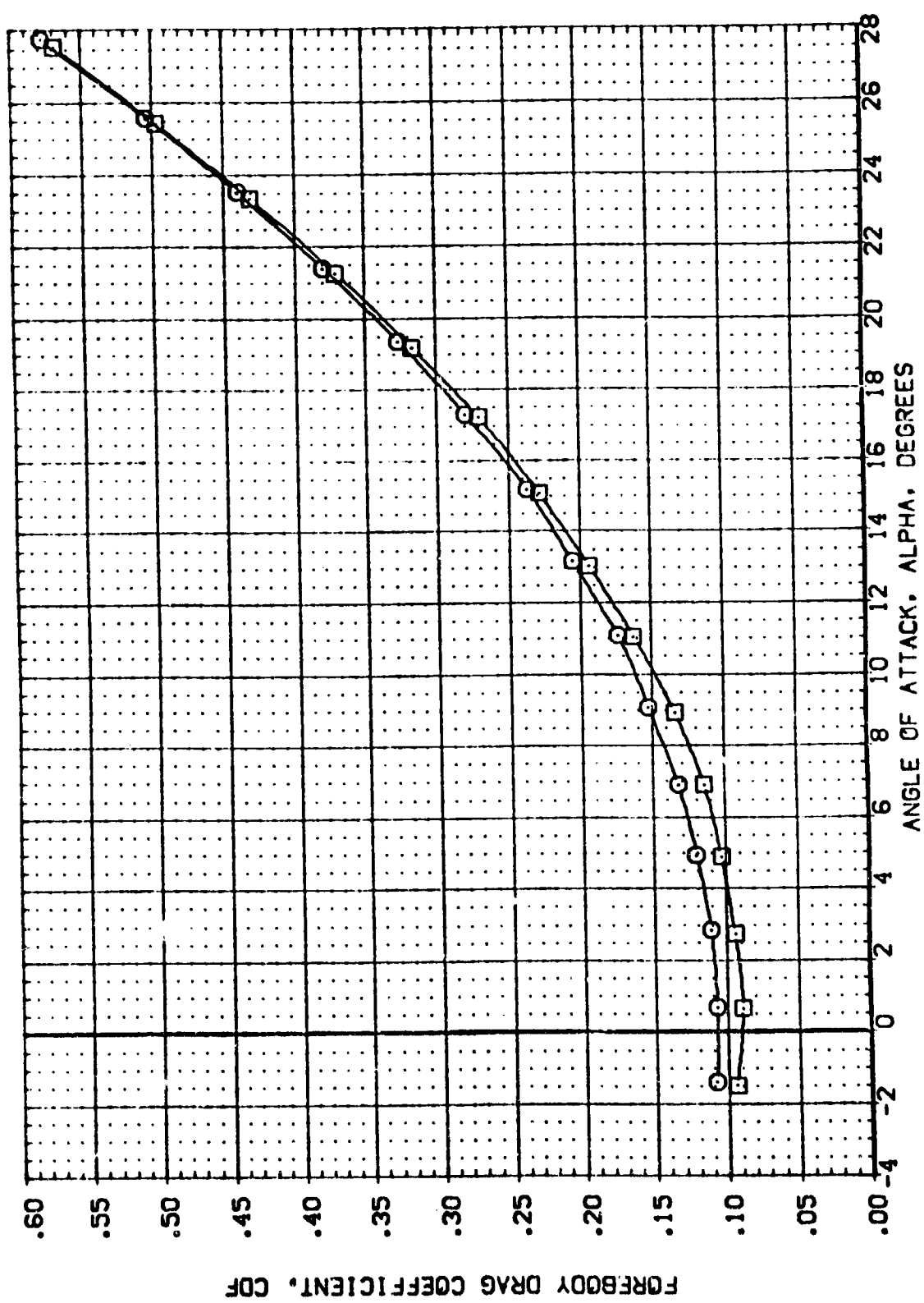


FIG. 9 SPEED BRAKE DEFLECTED
(C)MACH = 2.00

DATA SET SYMBOL: (18T004) (18T024) ☐ CONFIGURATION DESCRIPTION: AYES 66-706 CA13 B10 CS E7 M3 F4 V87E18 VSRS AYES 66-706 CA13 B10 CS E7 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRK RUDDER REFERENCE INFORMATION

BOOFLP	ELEVON	SPOBRK	RUDDER	SREF	2690.0000	50.FT.
-14.200	.000	54.900	.000	LREF	474.8000	
-14.200	.000	24.900	.000	BREF	936.6800	
				XPRP	1076.4800	
				YPRP	400.0000	
				ZPRP	400.0000	
				SCALE	.0150	

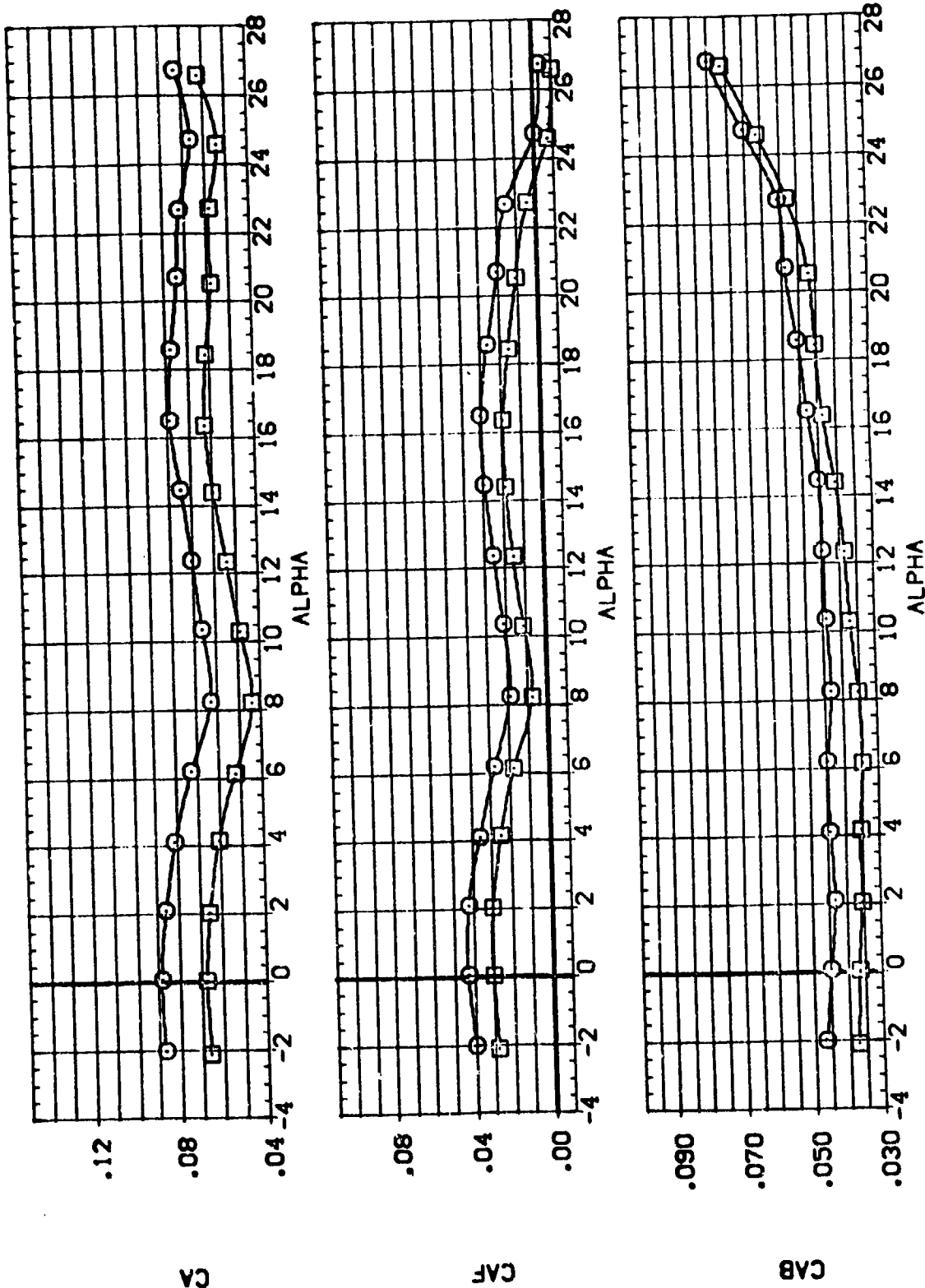


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60

DATA SET SYMBOL: (187004) (187024)

CONFIGURATION DESCRIPTION: ANES 66-726 CA13 810 CS D7 M3 F4 V87E18 VSRS ANES 66-706 CA13 810 CS D7 M3 F4 V87E18 VSRS

BOOFLP: -14.200
ELEVON: .000
SPDBRK: 54.900
RUDDER: .000

REFERENCE INFORMATION: SREF 2630.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMR0 1076.4600 IN. YMR0 .0000 IN. ZMR0 400.0000 IN. SCALE .0150

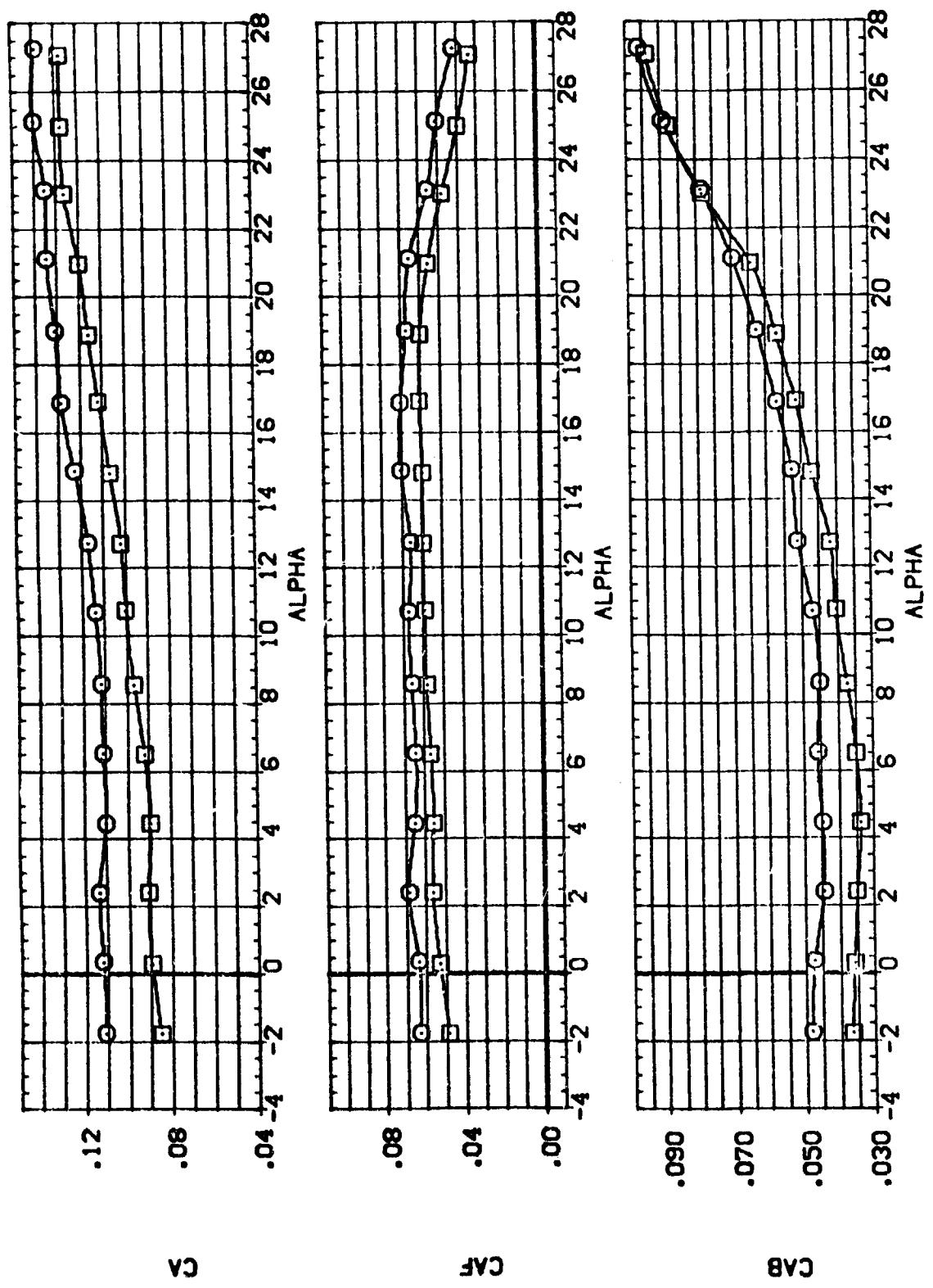


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .9:



DATA SET SYMBOL: (18T004) (18T024)

CONFIGURATION DESCRIPTION: APES 66-706 DA43 B10 C5 D7 M3 F4 V87E18 VSRS A-ES 66-706 DA43 B10 C5 D7 M3 F4 V87E18 VSRS

BOOFLP: -14.200

ELEVON: .000

SPDBRK: 54.900

RUDDER: .000

REFERENCE INFORMATION: SREF 2650.0000 SO.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150

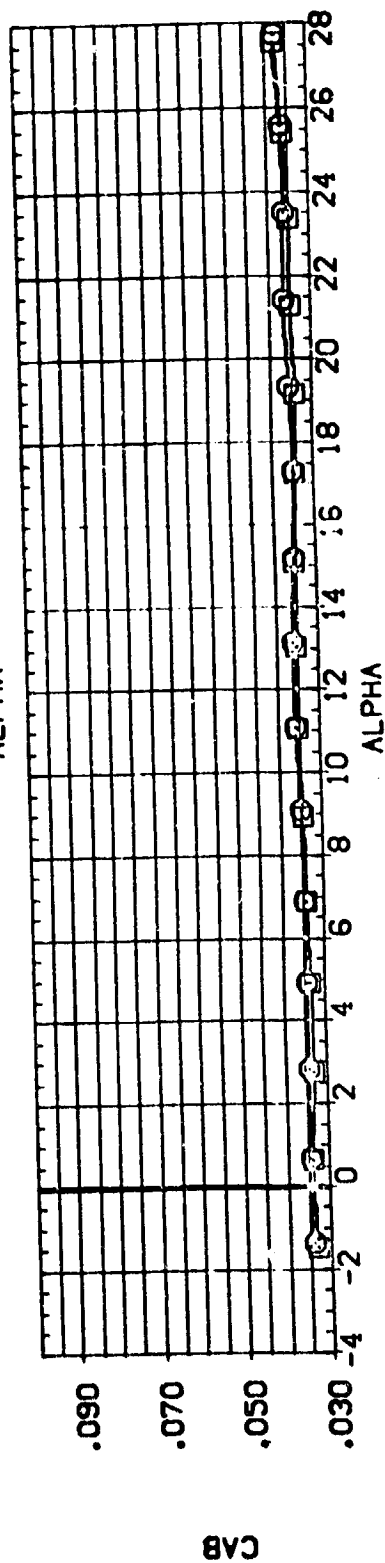
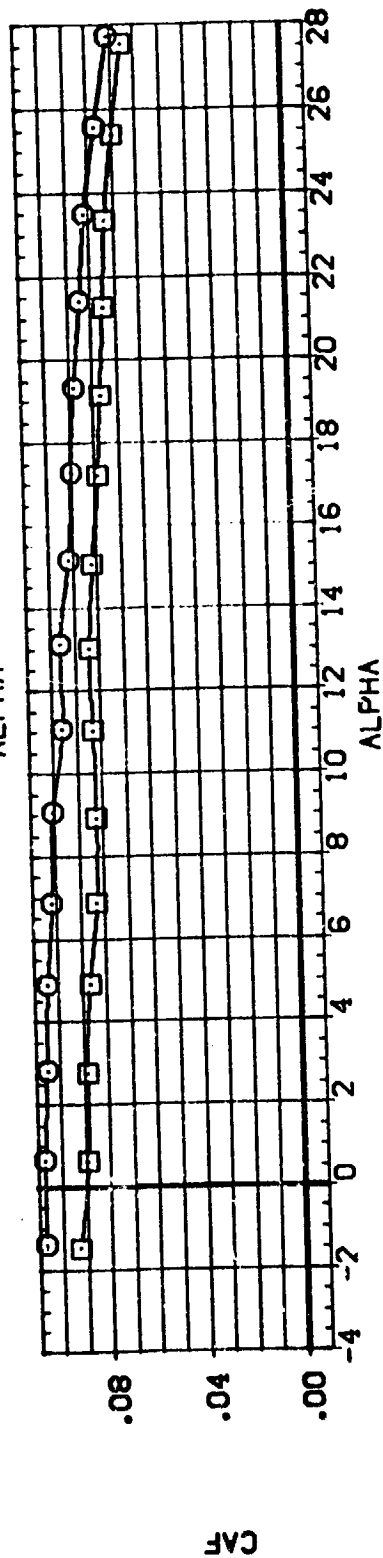
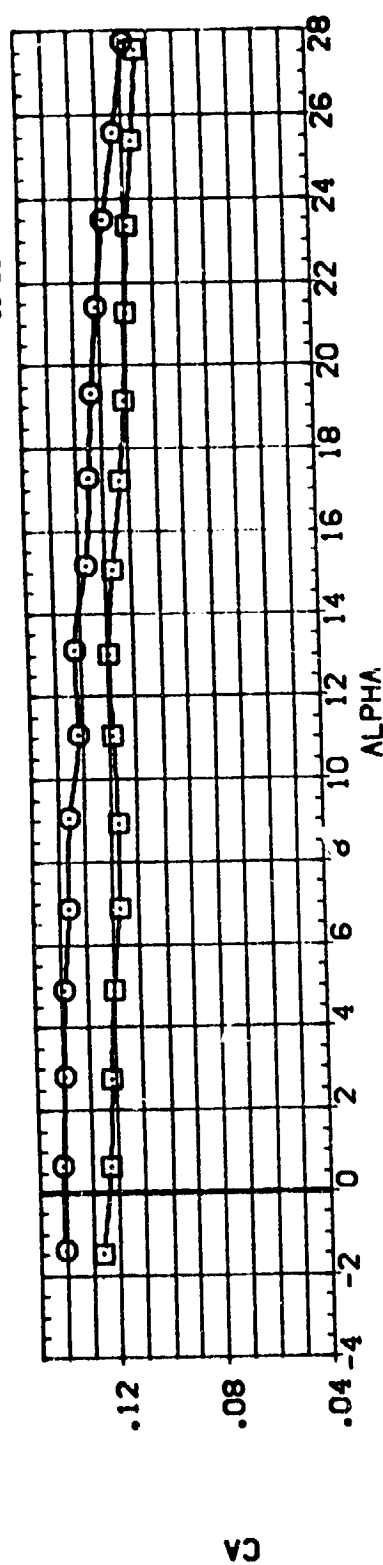


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOC/P	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION
[18'004]	AWES 66-706 0A13 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
[18'024]	AWES 66-706 0A13 B10 CS D7 F3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.5800 IN.
						XPRP 1076.1800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE .0150

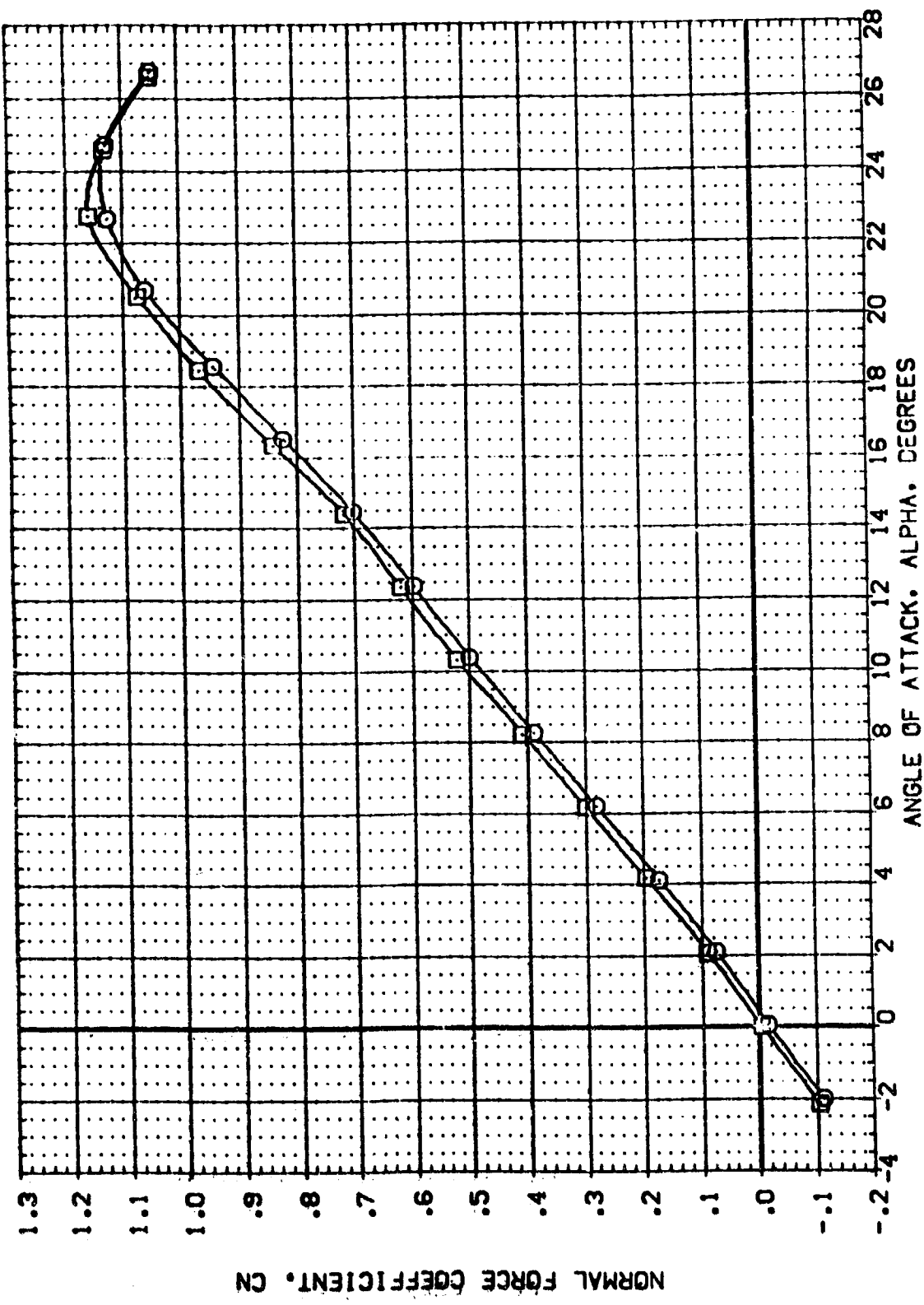


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60



DATA SET SYMBOL: (181004) (181024)

CONFIGURATION DESCRIPTION:
 ARES 66-736 CM43 B10 CS D7 M3 F4 V87E18 V5K5
 ARES 66-706 CM43 B10 CS D7 M3 F4 V87E18 V5K5

BOOF LP: -14.200 -14.200

ELEVON: .000 .000

SPODBK: 54.900 24.900

RUDER: .000 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XMRP: 1076.1800 IN.
 YMRP: .0000 IN.
 ZMRP: 400.0000 IN.
 SCALE: .0150

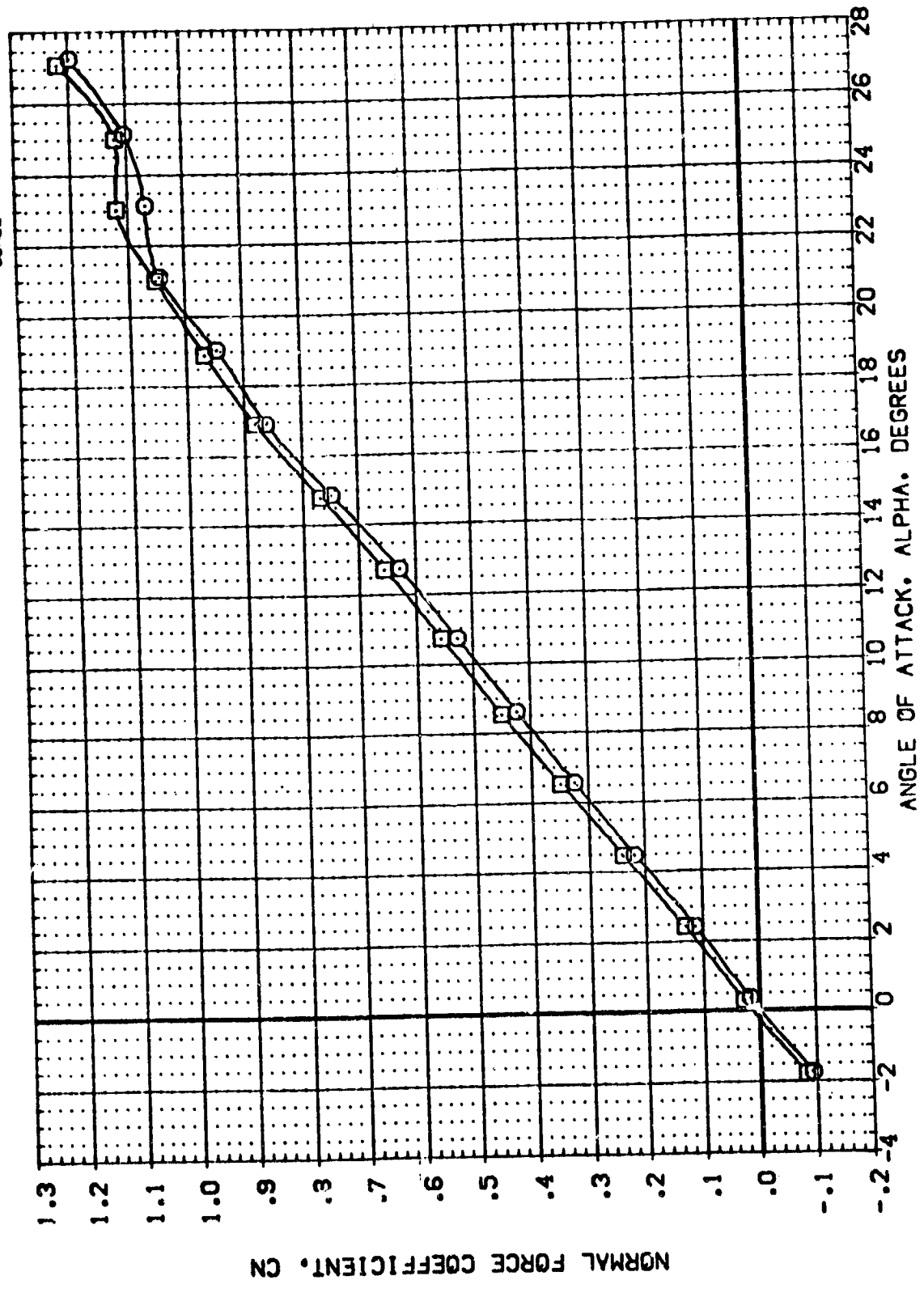


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

DATA SET SYMBO. CONFIGURATION DESCRIPTION

SYMBOL	DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
9	AVES 66-706 CM43 B10 CS C7 F4 V87E18 V5W5	-14.200	.000	54.900	.000	SREF 2500.0000 50.FT.
	AVES 66-706 CM43 B10 CS C7 F4 V87E18 V5W5	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.8800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

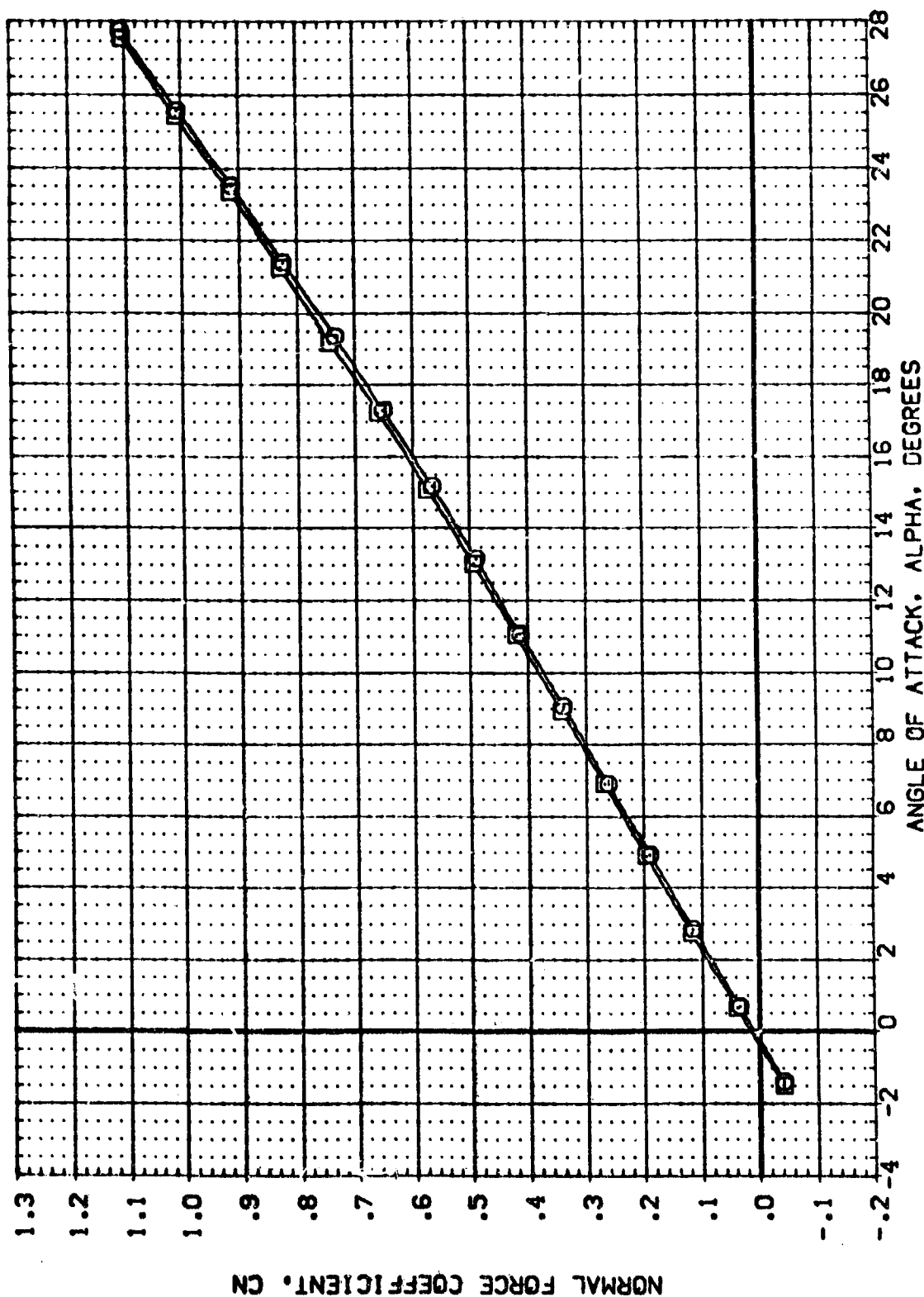


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMB.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRM	RUDDER	REFERENCE INFORMATION
(19TQ4)	AVES 65-706 0M43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(19TQ24)	AVES 65-706 0M43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						SREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

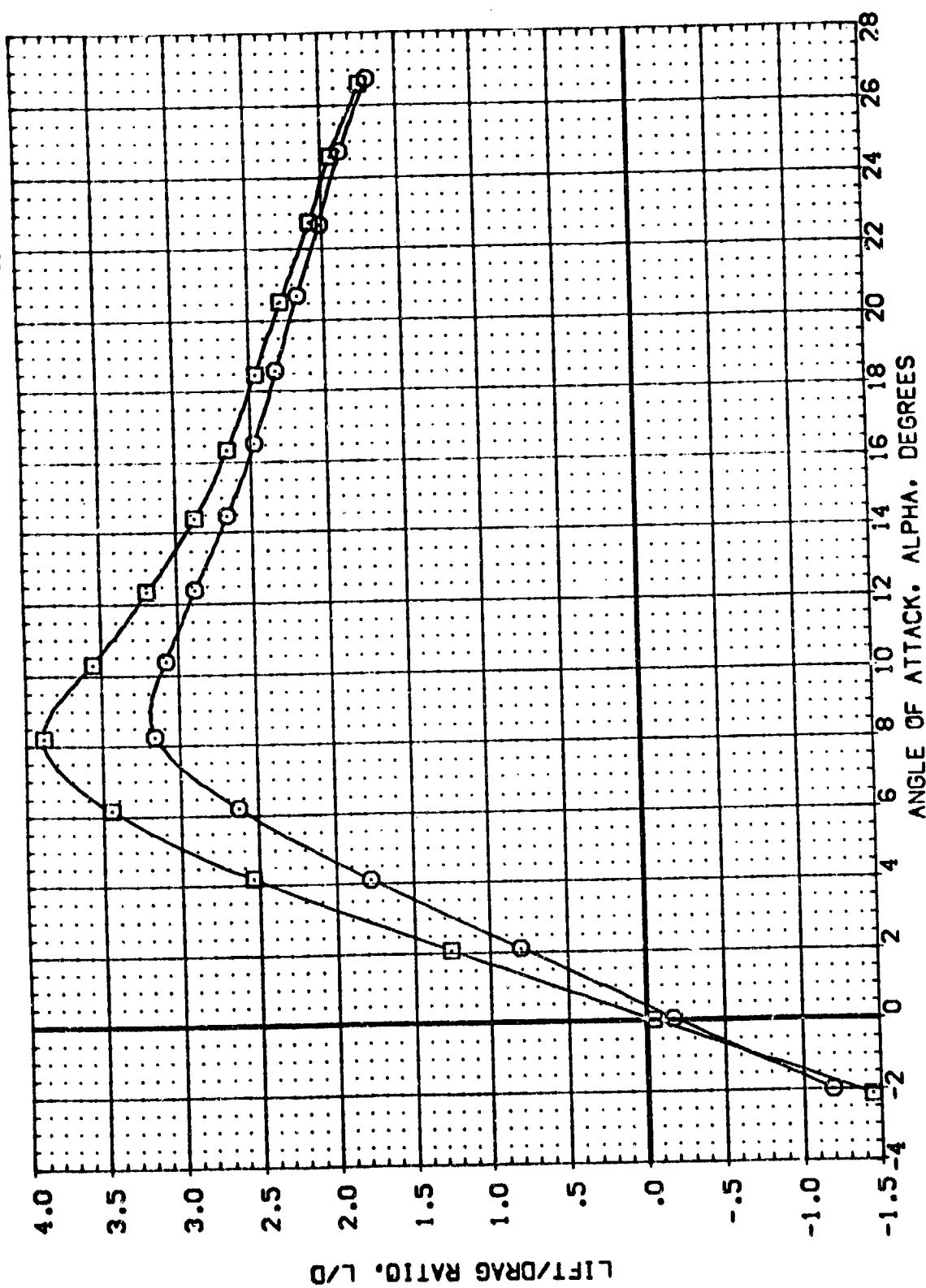


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPDRK	RUDER	REFERENCE INFORMATION	
(18T004)	AVS 66-706 0M43 B10 CS D7 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	SREF	2690.0000
(18T024)	AVS 66-706 0M43 B10 CS D7 M3 F4 V87E18 V595	-14.200	.000	24.900	.000	LREF	474.8000
						BREF	936.6800
						XPRP	1076.4800
						YPRP	.0000
						ZPRP	400.0000
						SCALE	.0150
							90.FT.

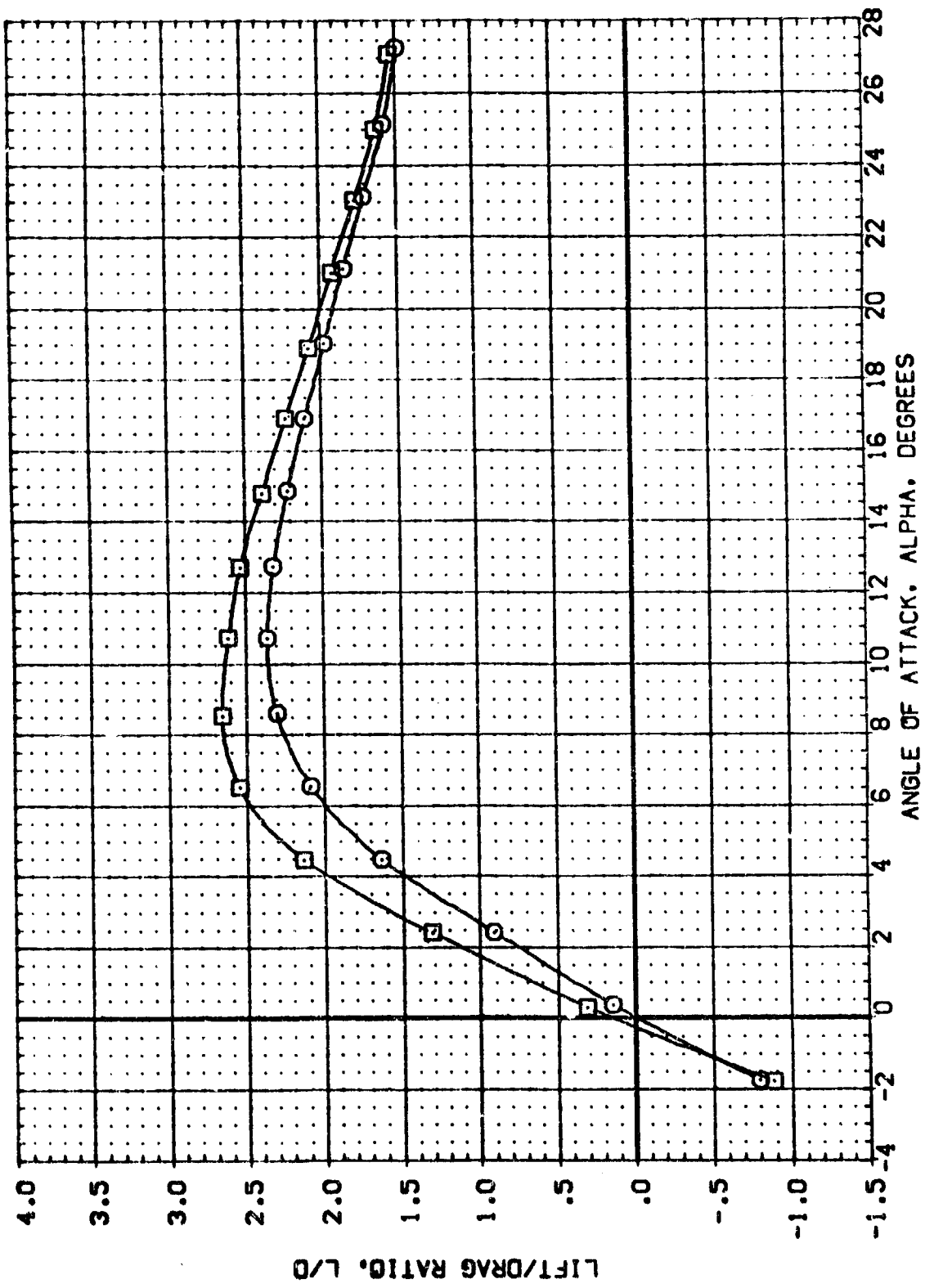


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(18TC04)	AVES 66-706 0A43 810 CS 07 P3 F4 V87E18 V595	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(18TC24)	AVES 66-706 0A43 810 CS 07 P3 F4 V87E18 V595	-14.200	.500	24.900	.000	LREF	474.8000 IN.
						SREF	936.6800 IN.
						XREF	1076.4800 IN.
						YREF	.0000 IN.
						ZREF	400.0000 IN.
						SCALE	.0150

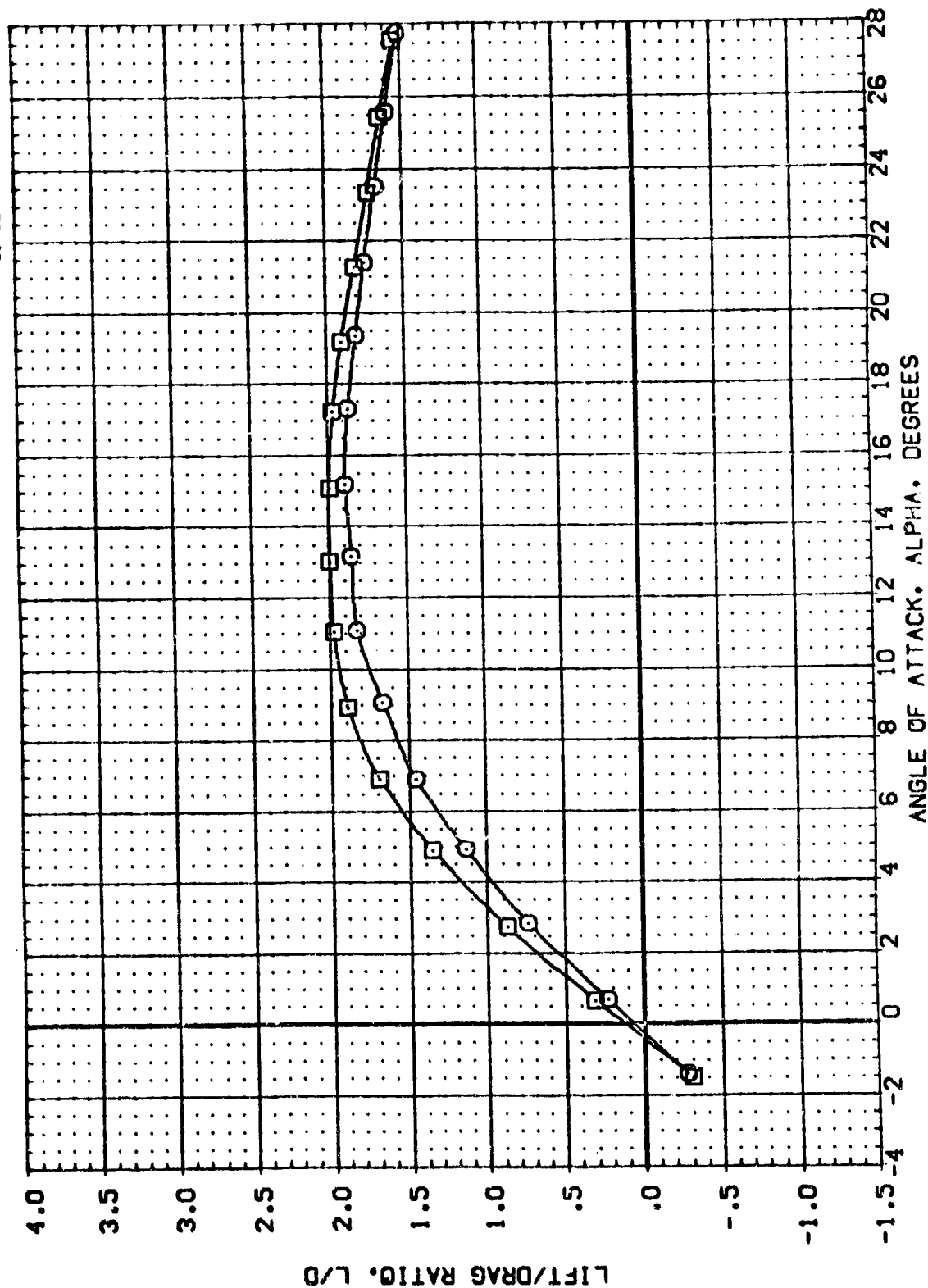


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
[18-024]	AVES 65-706 CA43 B10 CS 07 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	SREF 2630.0000
[18-024]	AVES 65-706 CA43 B10 CS 07 M3 F4 V87E18 V595	-14.200	.000	24.900	.000	LREF 474.8000
						BREF 936.8800
						XMRP 1076.4800
						VMRP .0000
						ZMRP 400.0000
						SCALE .0150
						SCALE

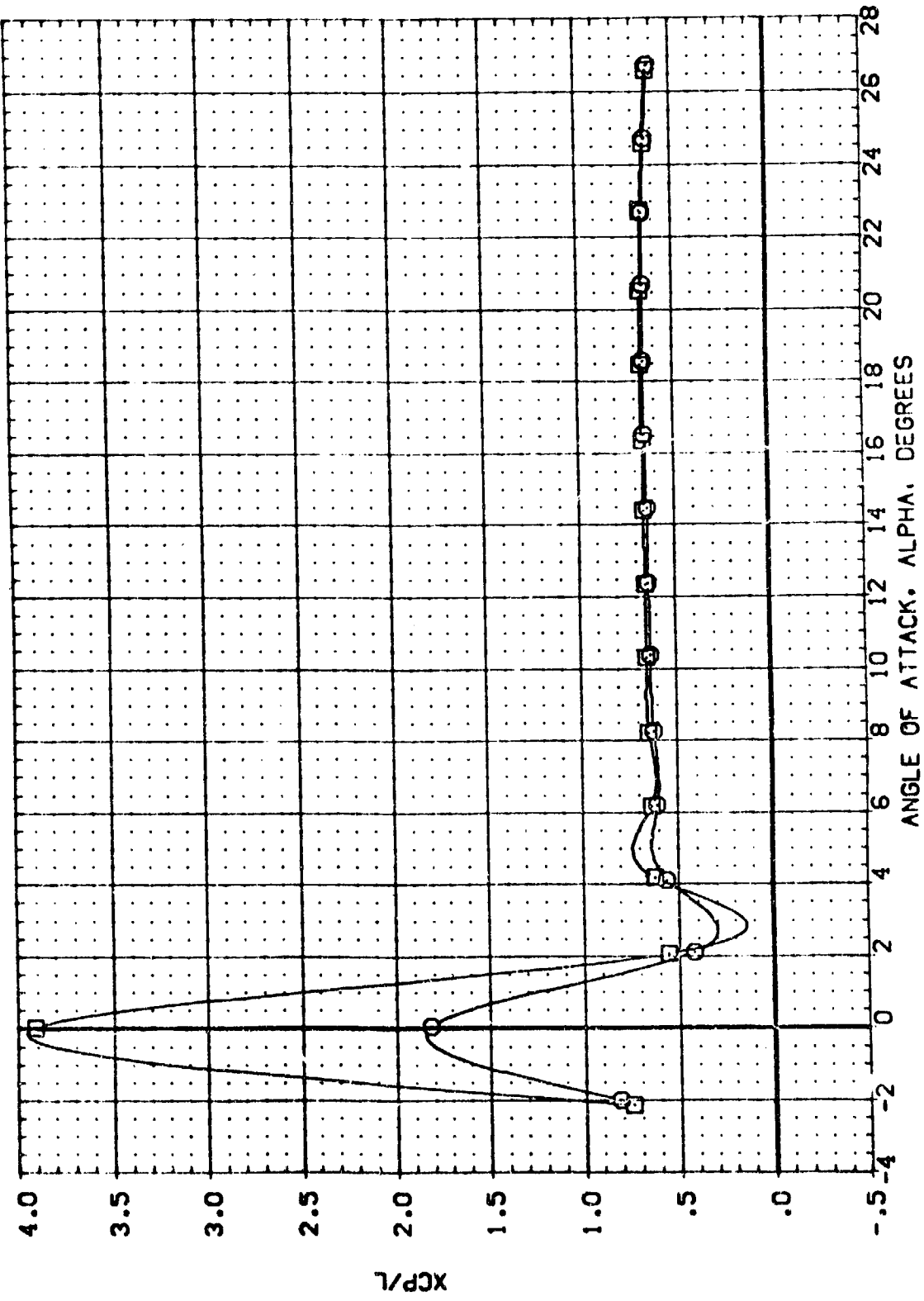


FIG. 9 SPEED BRAKE DEFLECTED

(M)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(187004)	AVES 65-706 0A13 B10 CS D7 M3 F4 V87E18 V59S	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(187024)	AVES 65-706 0A13 B10 CS D7 M3 F4 V87E18 V59S	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

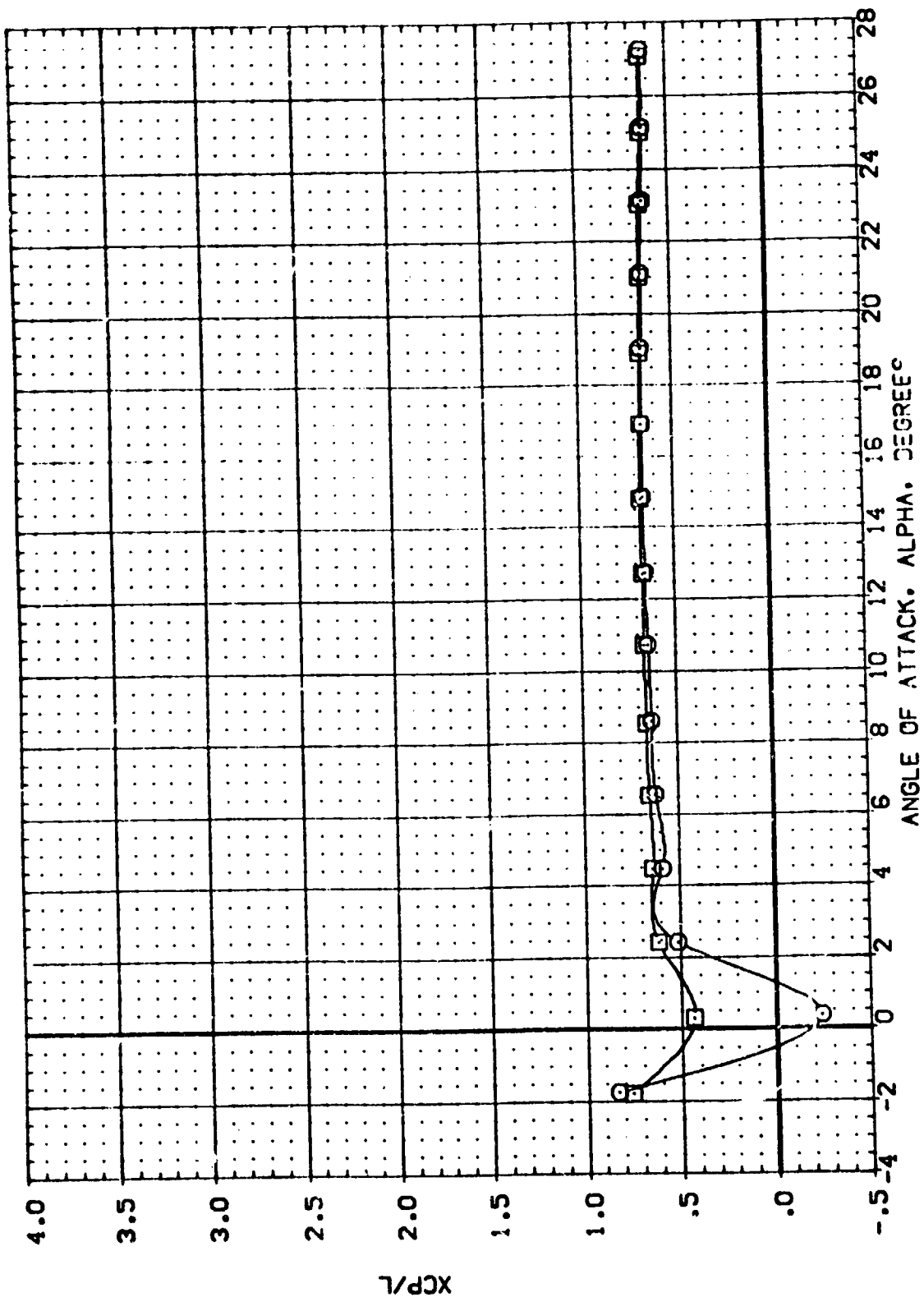


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

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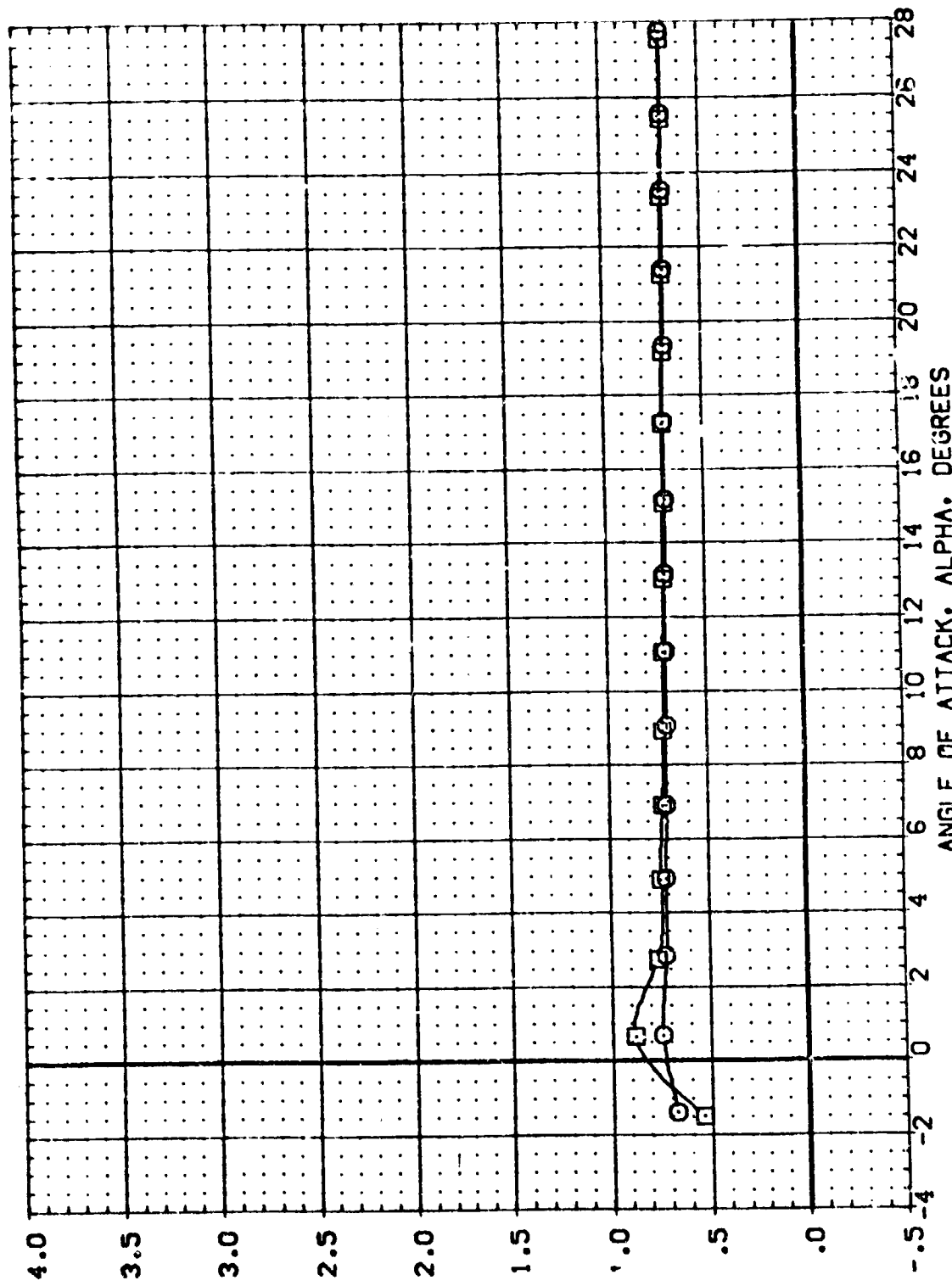


FIG. 9 SPEED BRAKE DEFLECTED

```
(C)MACH = 2.00
```



DATA SET SYMBOL: (1BT004) (1BT024)

CONFIGURATION DESCRIPTION:
 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOF LP ELEVON SPOBRK RUDDER
 -14.200 .000 54.500 .000
 -14.200 .000 24.500 .000

REFERENCE INFORMATION:
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150 SCALE

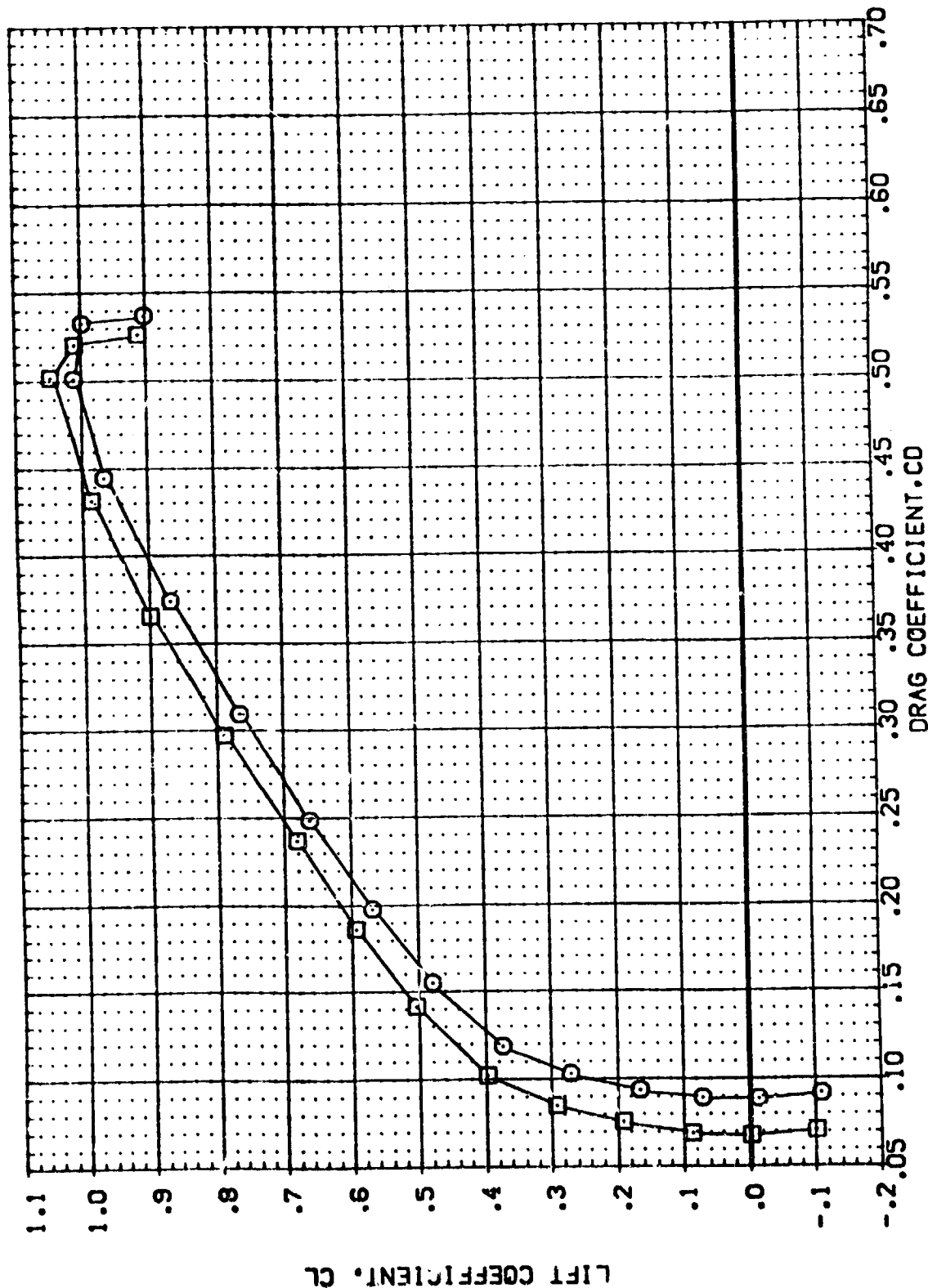


FIG. 9 SPEED BRAKE DEFLECTED

(M)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOORRY	RUDDER	REFERENCE INFORMATION
(18T004)	AVES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VS05	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(18T024)	AVES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VS05	-14.200	.000	24.900	.000	UREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE .0150

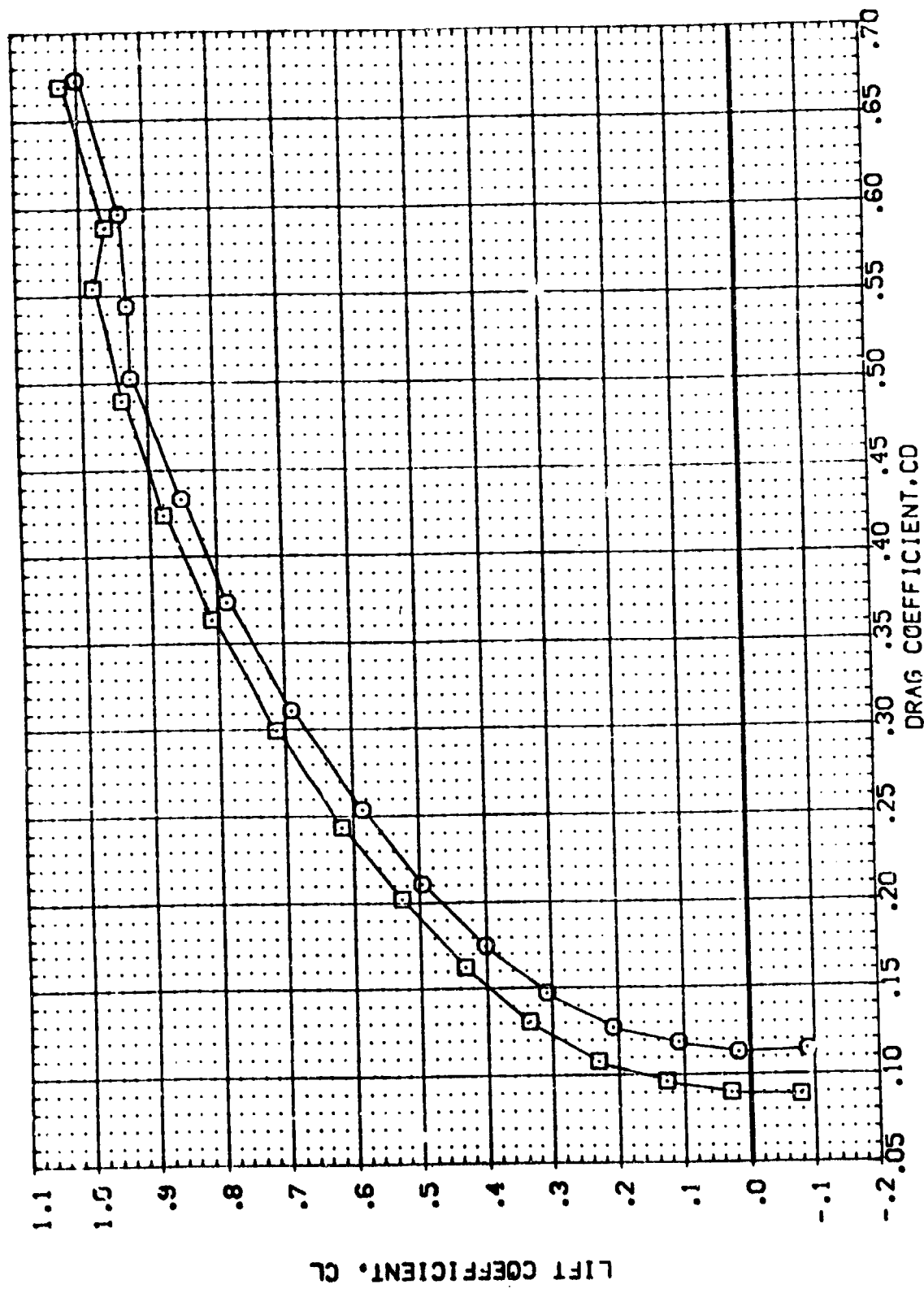


FIG. 9 SPEED BRAKE DEFLECTED

(B) MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(18T004)	AVES 66-706 0A43 B10 CS 07 PG F4 V67E18 V595	-14.200	.000	54.900	.000	SREF 2650.0000 SQ.FT.
(18T024)	AVES 66-706 0A43 B10 CS 07 PG F4 V67E18 V595	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

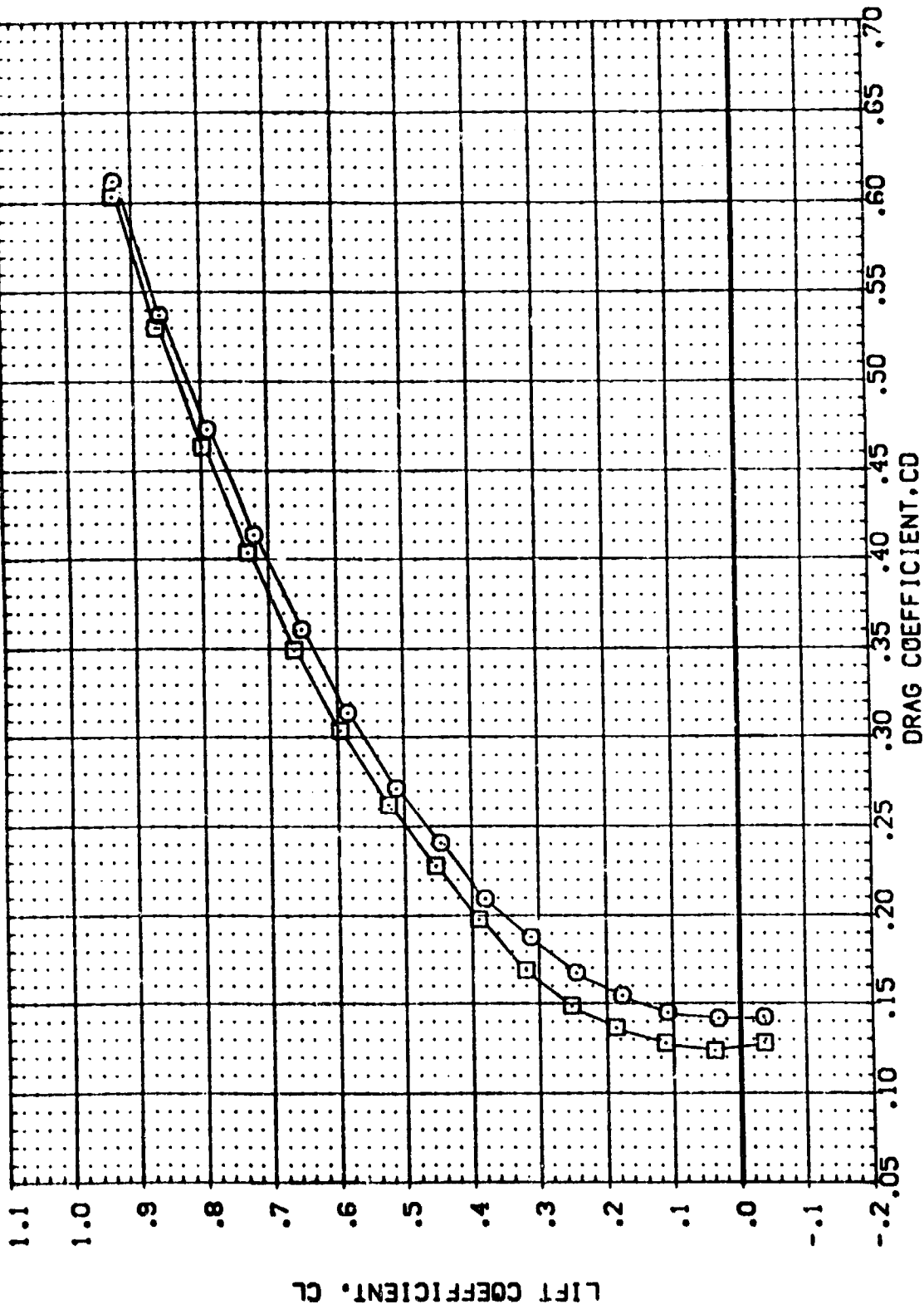


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(187004)	AMES 66-706 CA13 B10 CS 07 H3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(191024)	AMES 66-706 CA13 B10 CS 07 H3 F4 V87E18 VSRS	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.8800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE 400.0000

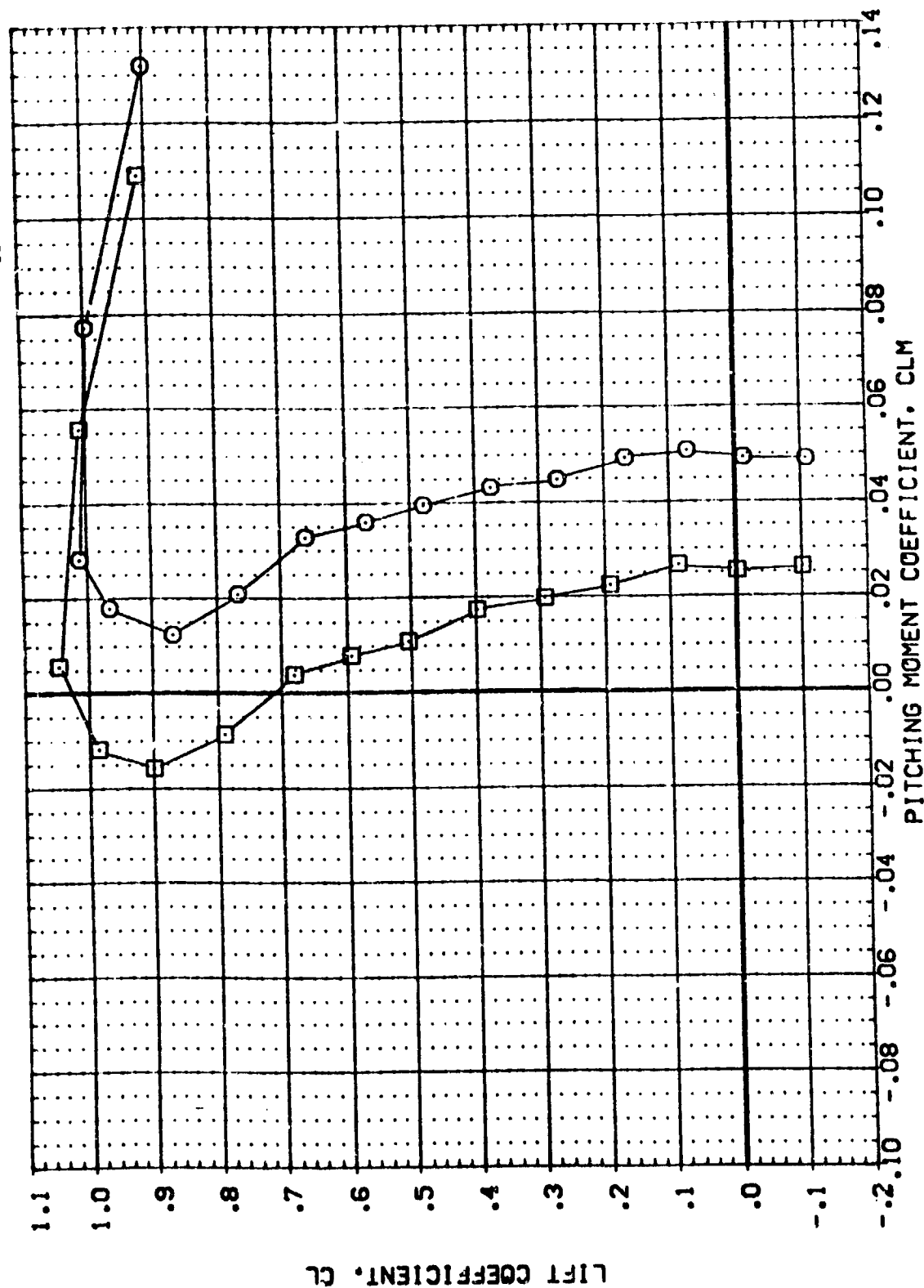


FIG. 9 SPEED BRAKE DEFLECTED

(MACH = .60)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPORBN		RUDDER		REFERENCE INFORMATION	
(18T004)	□	AVES 66-706 0M43 B10 CS 07 PG F4	V67E18 V56S	-14.200	.000	54.900	.000	.000	2690.0000	SG.FT.			
(18T024)	□	AVES 66-706 0M43 B10 CS 07 PG F4	V67E18 V56S	-14.200	.000	24.900	.000	.000	474.8000	IN.			
									936.6800	IN.			
									1076.4800	IN.			
									400.0000	IN.			
									400.0000	SCALE			

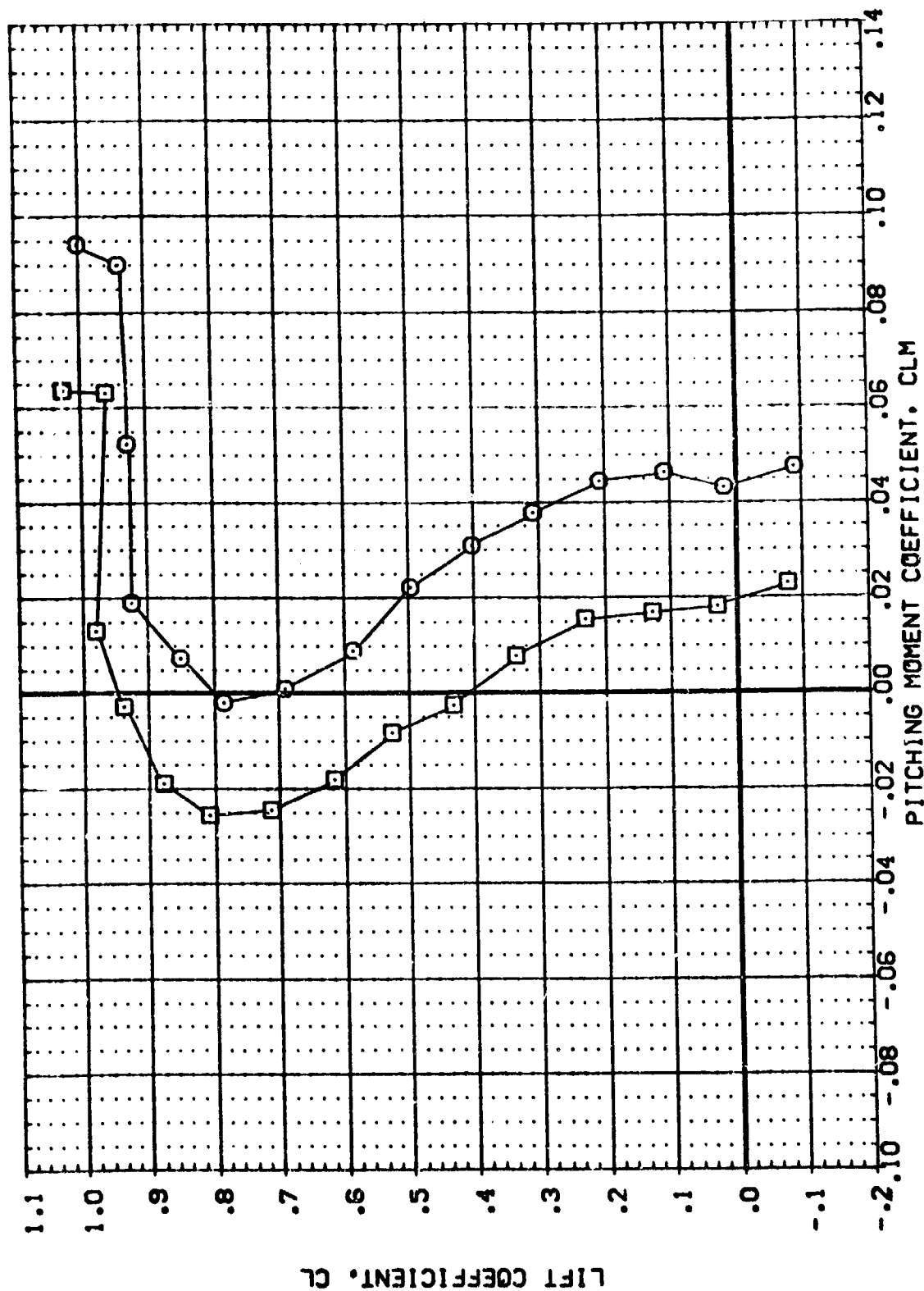


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

DATA SET SYMB.		CONFIGURATION DESCRIPTION		BODFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION	
(18T004)	(18T024)	AVES 66-706	DA43 B10 CS D7 M3 F4	V87E18	V87E18	-14.200	.000	54.500	.000	.000	.000	SREF	2690.0000
		AVES 66-706	DA43 B10 CS D7 M3 F4	V87E18	V87E18	-14.200	.000	24.500	.000	.000	.000	LREF	474.8000
												BREF	936.6800
												XVRRP	1076.4800
												YVRRP	.0000
												ZVRRP	.0000
												SCALE	.0150
													SD, FT.

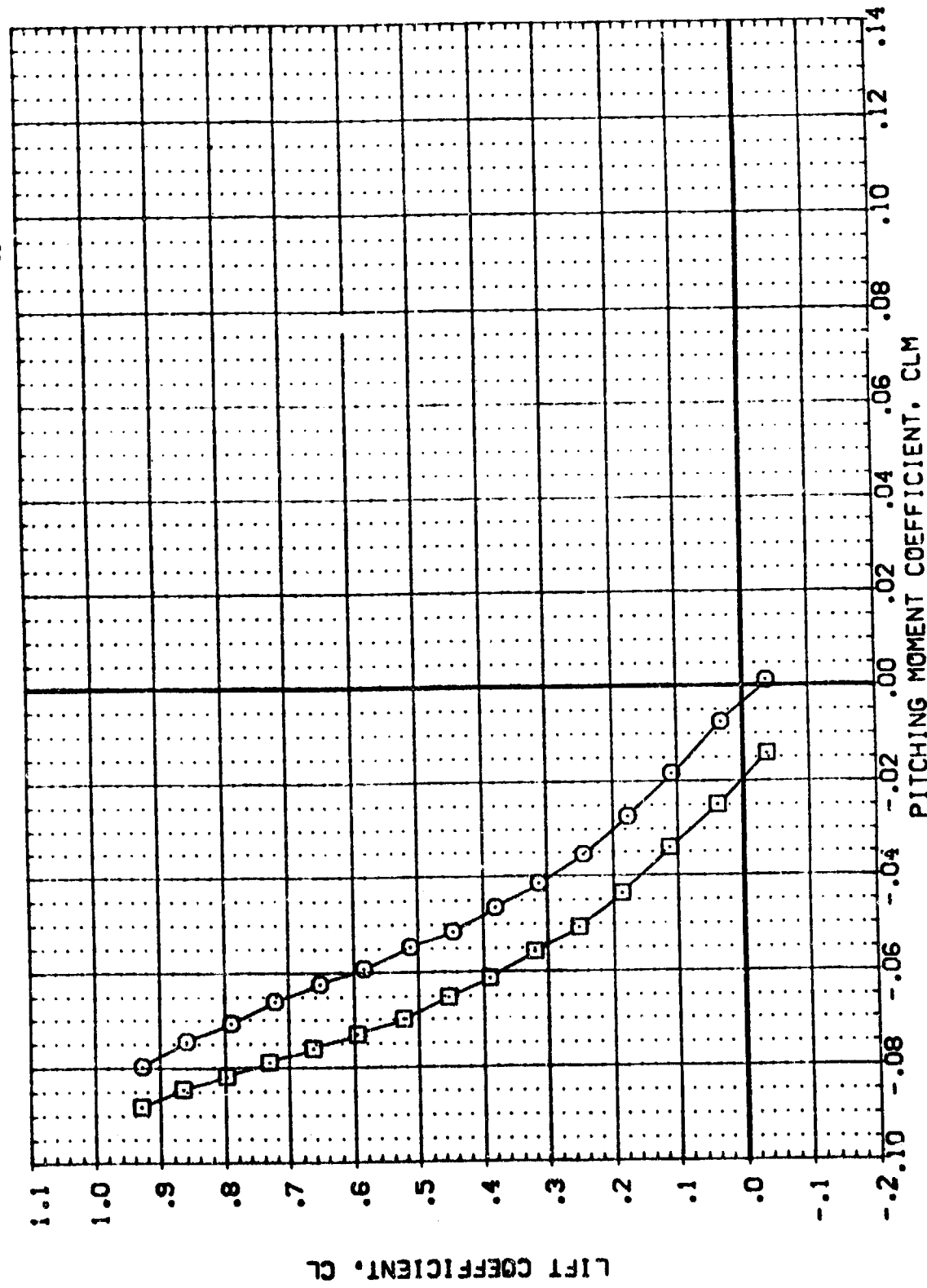


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(187004)	AMES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(187024)	AMES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

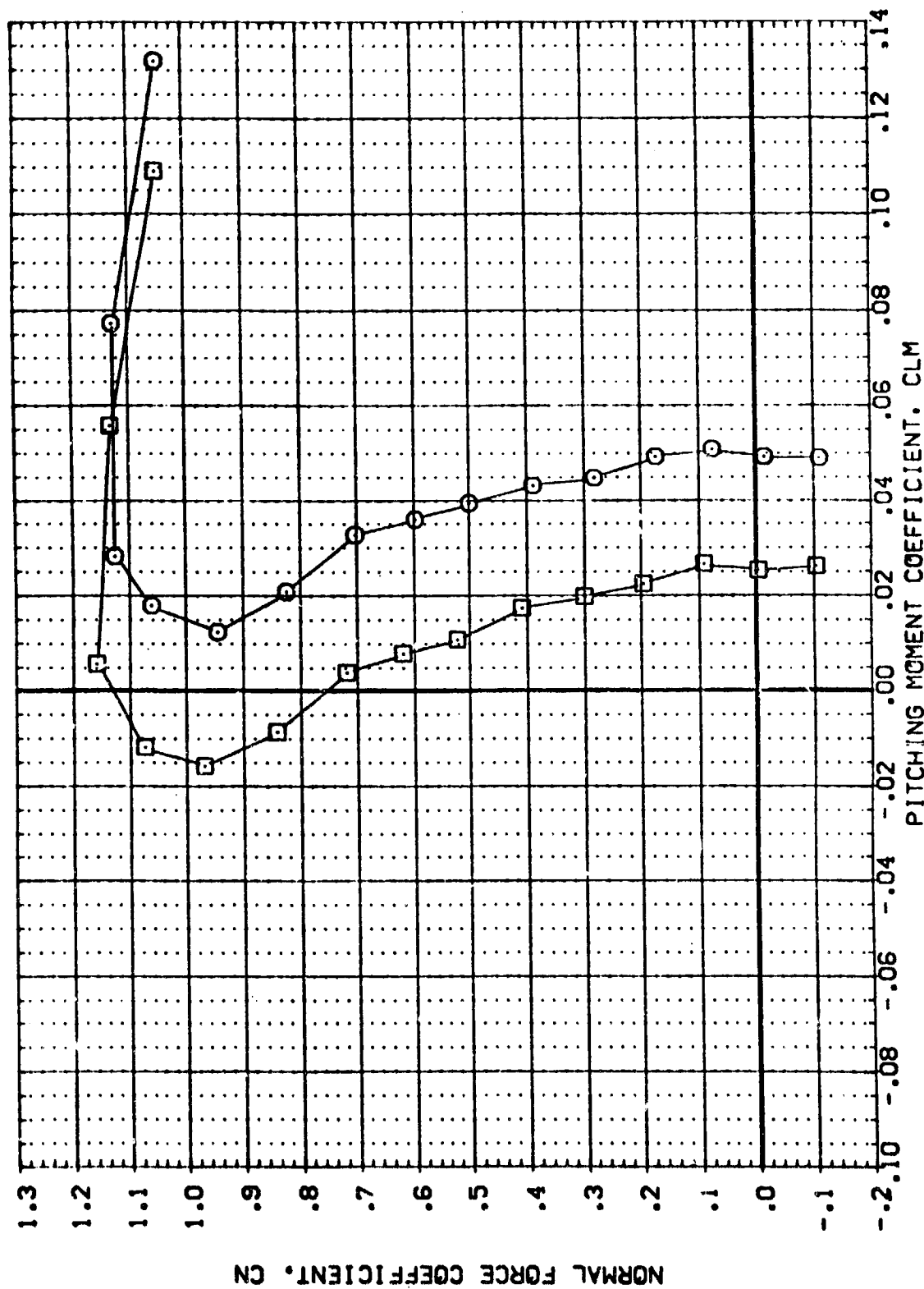


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(187004)	AMES 66-706 0A43 B10 CS 07 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(187024)	AMES 66-706 0A43 B10 CS 07 M3 F4 V87E18 VSRS	-14.200	.000	24.900	.000	LREF 174.8000 IN.
						BREF 936.8600 IN.
						XVRRP 1076.4800 IN.
						YVRRP .0000 IN.
						ZVRRP .0000 IN.
						SCALE 400.0000
						SCALE .0150

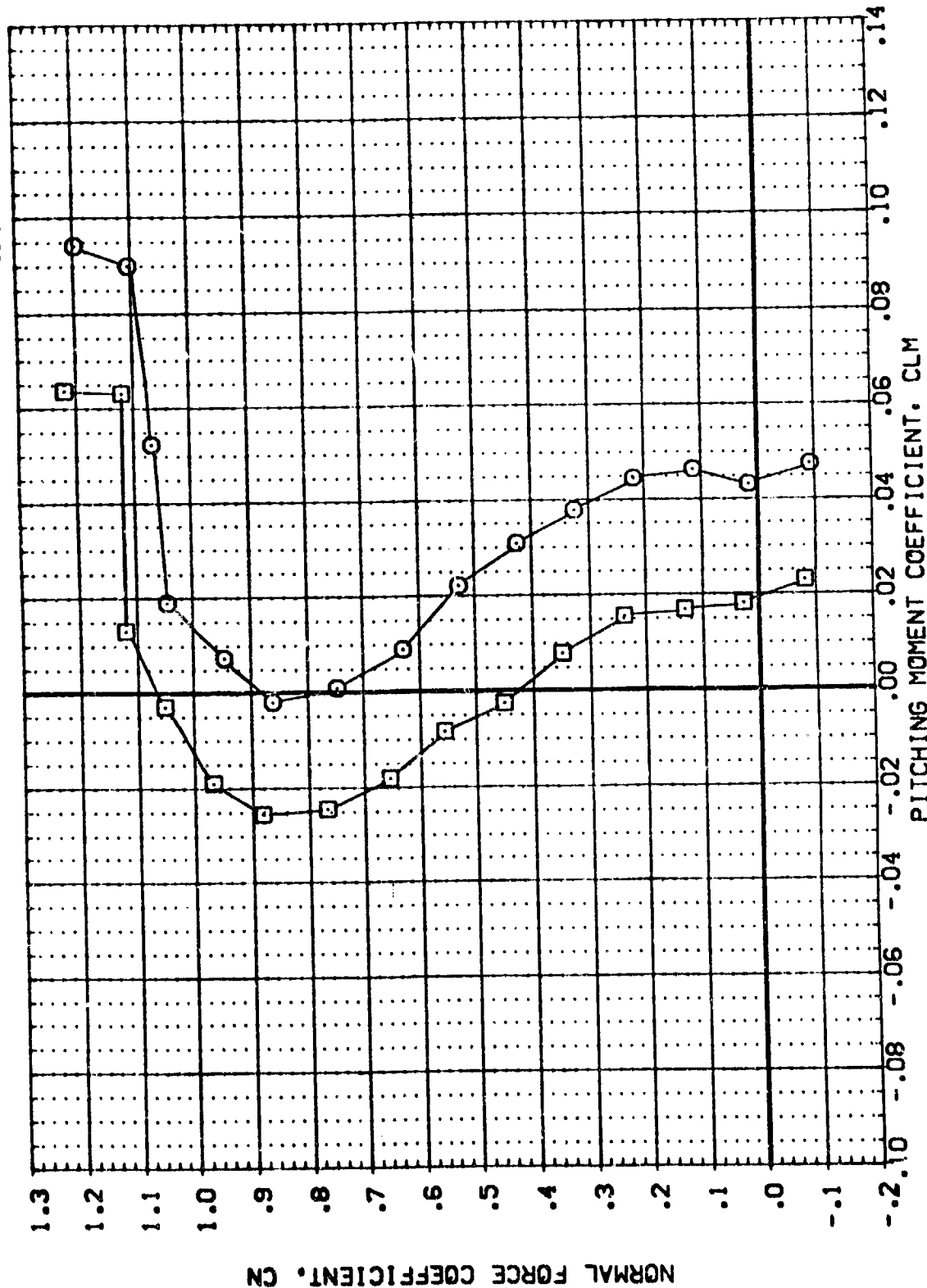


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91



DATA SET SYMBOL: (18T004) (18T024) ☐ ☐

CONFIGURATION DESCRIPTION: ASES 66-70S DA43 B10 CS D7 M3 F4 V87E18 VARS ASES 66-70S DA43 B10 CS D7 M3 F4 V87E18 VARS

BOOF LP: -14.200 -14.200

ELEVON: .000 .000

SPDSBR: 54.900 24.900

RUDDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRD 1076.1800 IN. YMRD .0000 IN. ZMRD 400.0000 IN. SCALE .0150

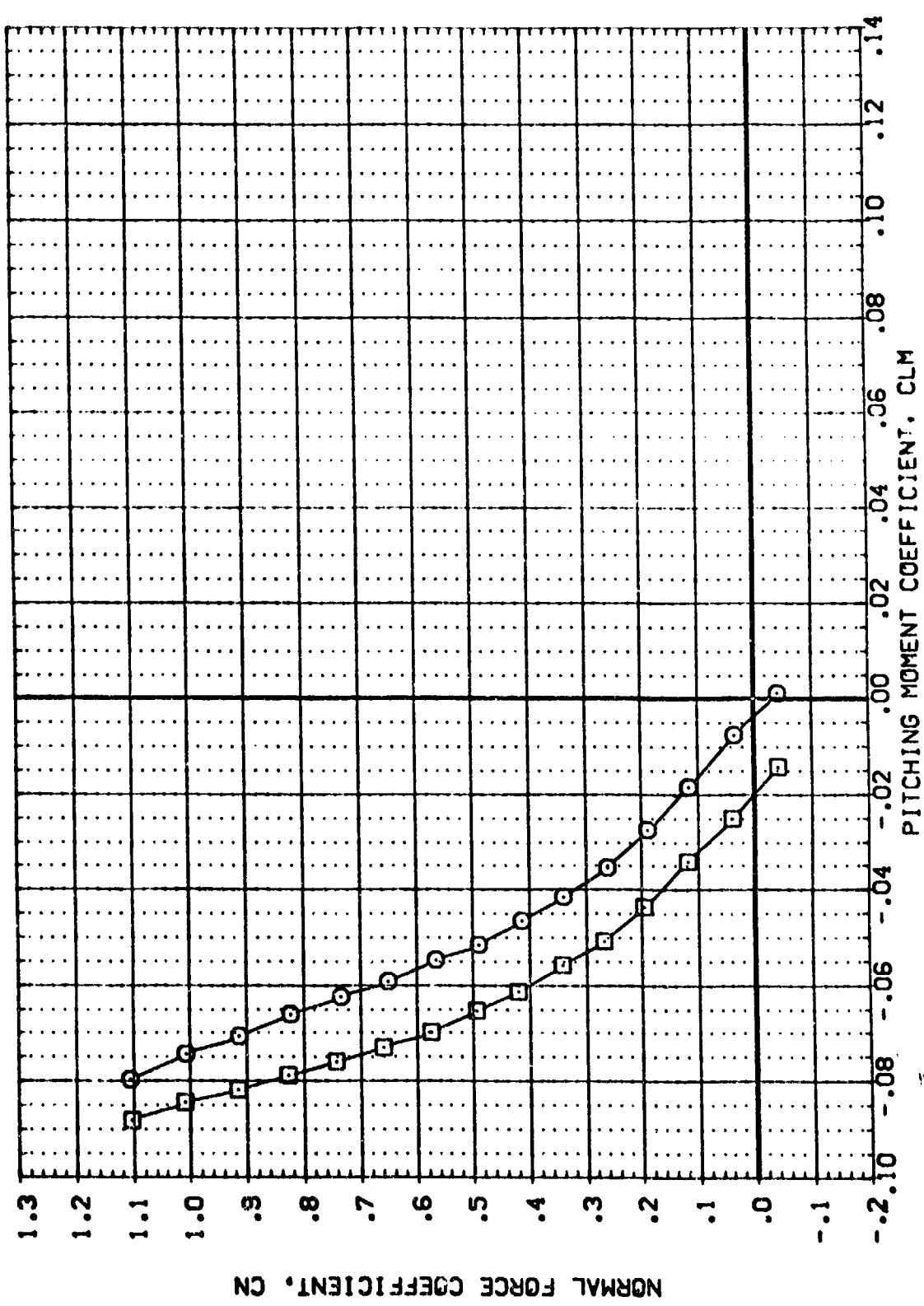


FIG. 9 SPEED BRAKE DEFLECTED
(C) VACH = 2.00

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDER	REFERENCE INFORMATION
(181004)	APES 66-706 0M43 B10 CS 07 M3 F4 VP7E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000
(181024)	APES 66-706 0M43 B10 CS 07 M3 F4 VP7E18 VSRS	-14.200	.000	24.900	.000	LREF 474.8000
						BREF 936.8800
						XMRP 1076.4800
						YMRP .0000
						ZMRP .0000
						SCALE .0150
						SCALE

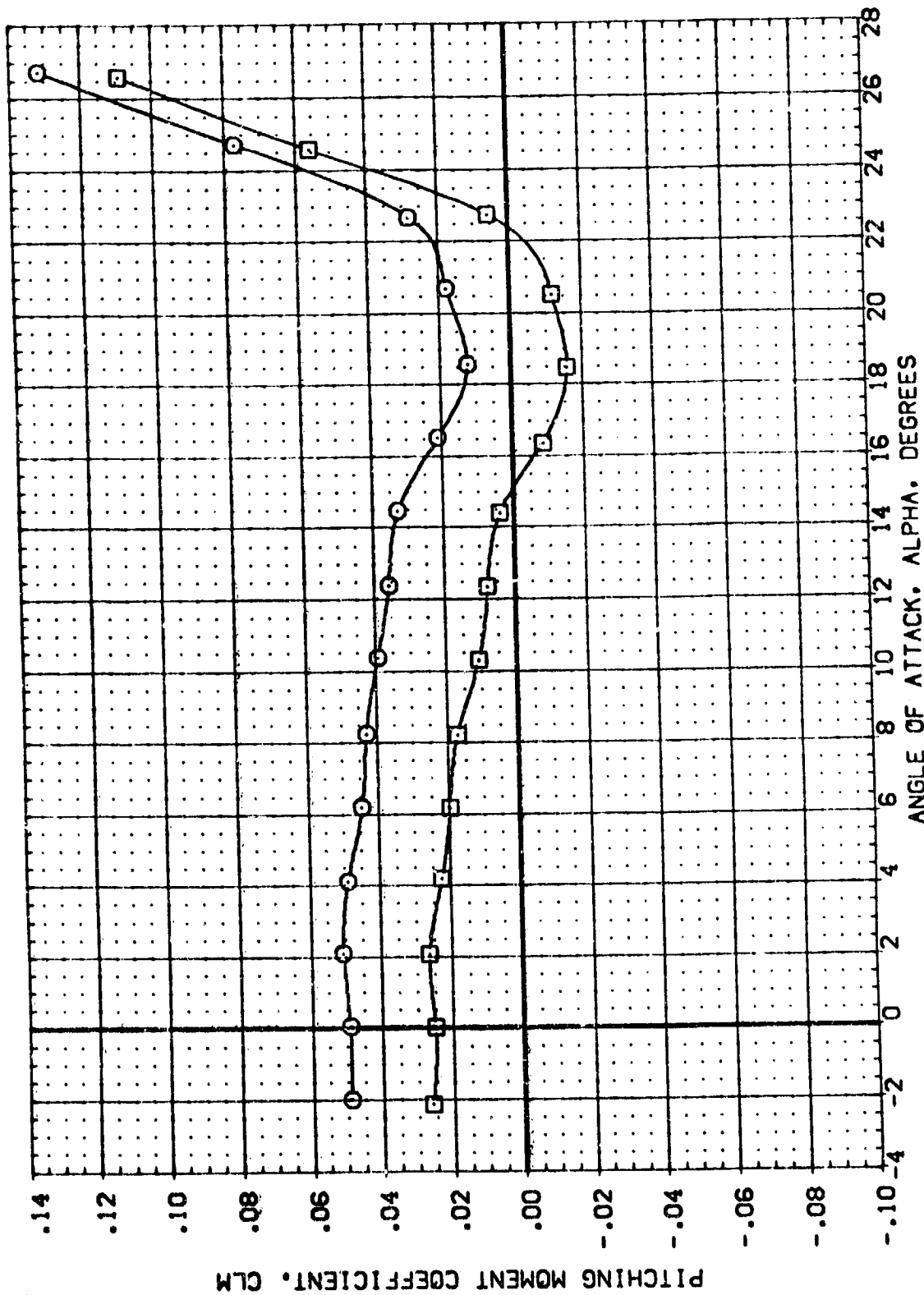


FIG. 9 SPEED BRAKE DEFLECTED

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOF LP		ELEVON		SP0BRK		RUDDER		REFERENCE INFORMATION	
{187004}		A4ES 66-706 DA43 B10 CS D7 P3 F4 V87E18 V595		-14.200		.000		54.900		.000		SREF 2690.0000 SQ.FT.	
{187024}		A4ES 66-706 DA43 B10 CS D7 P3 F4 V87E18 V595		-14.200		.000		24.900		.000		LREF 474.8000 IN.	
												BREF 936.6800 IN.	
												XREF 1076.1800 IN.	
												YREF .0000 IN.	
												ZREF 100.0000 IN.	
												SCALE .0150 SCALE	

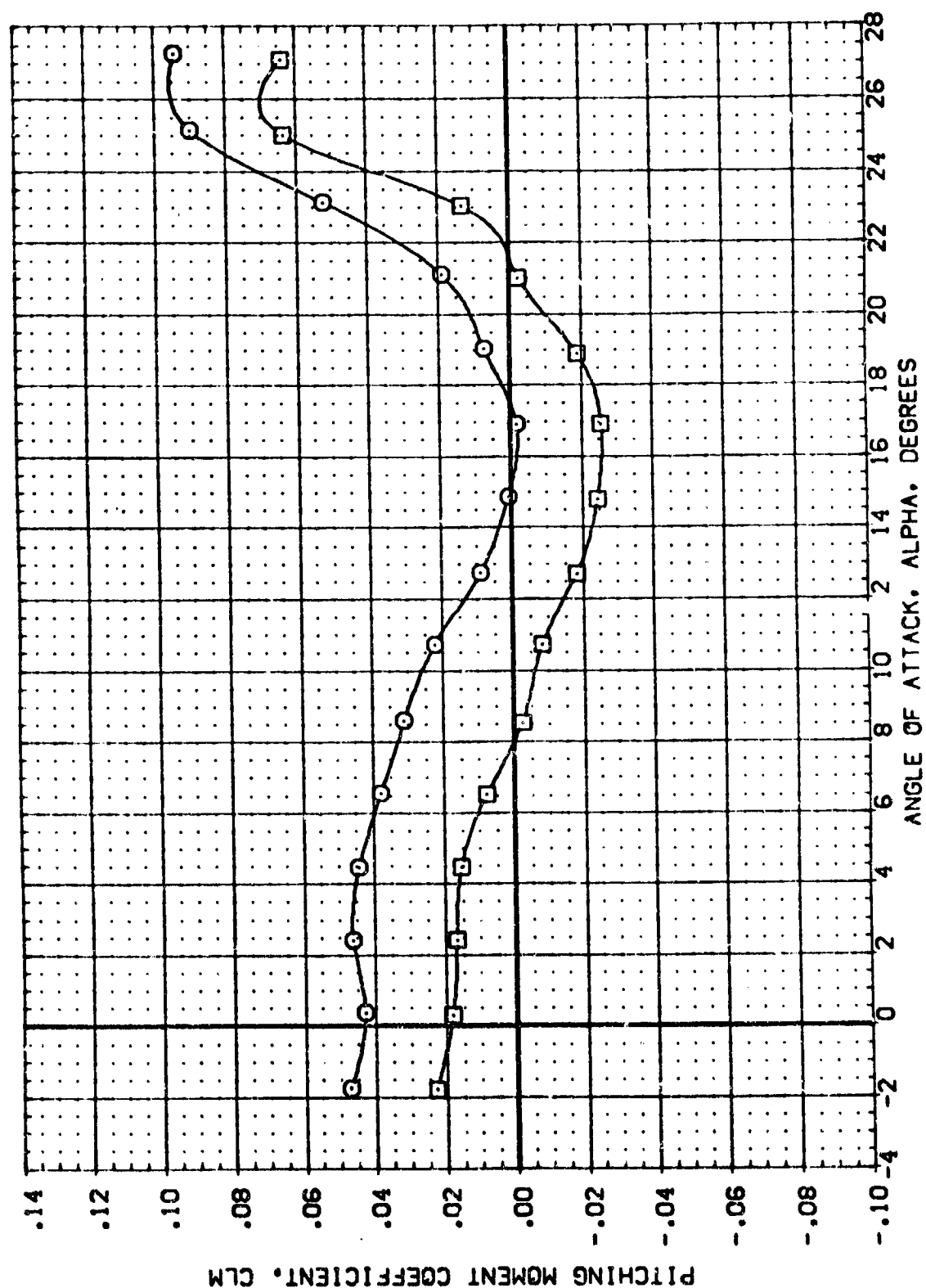


FIG. 9 SPEED BRAKE DEFLECTED

(B)MACH = .91

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(18T004)		AVES 66-706 CM43 B10 CS 07 M3 F4 V87E18 V59S		SREF 2690.0000 SQ.FT.	
(18T024)		AVES 66-706 CM43 B10 CS 07 M3 F4 V87E18 V59S		LREF 474.8300	
				BREF 936.6800	
				XMRP 1076.1800	
				YMRP .0000	
				ZMRP 400.0000	
				SCALE .0150	

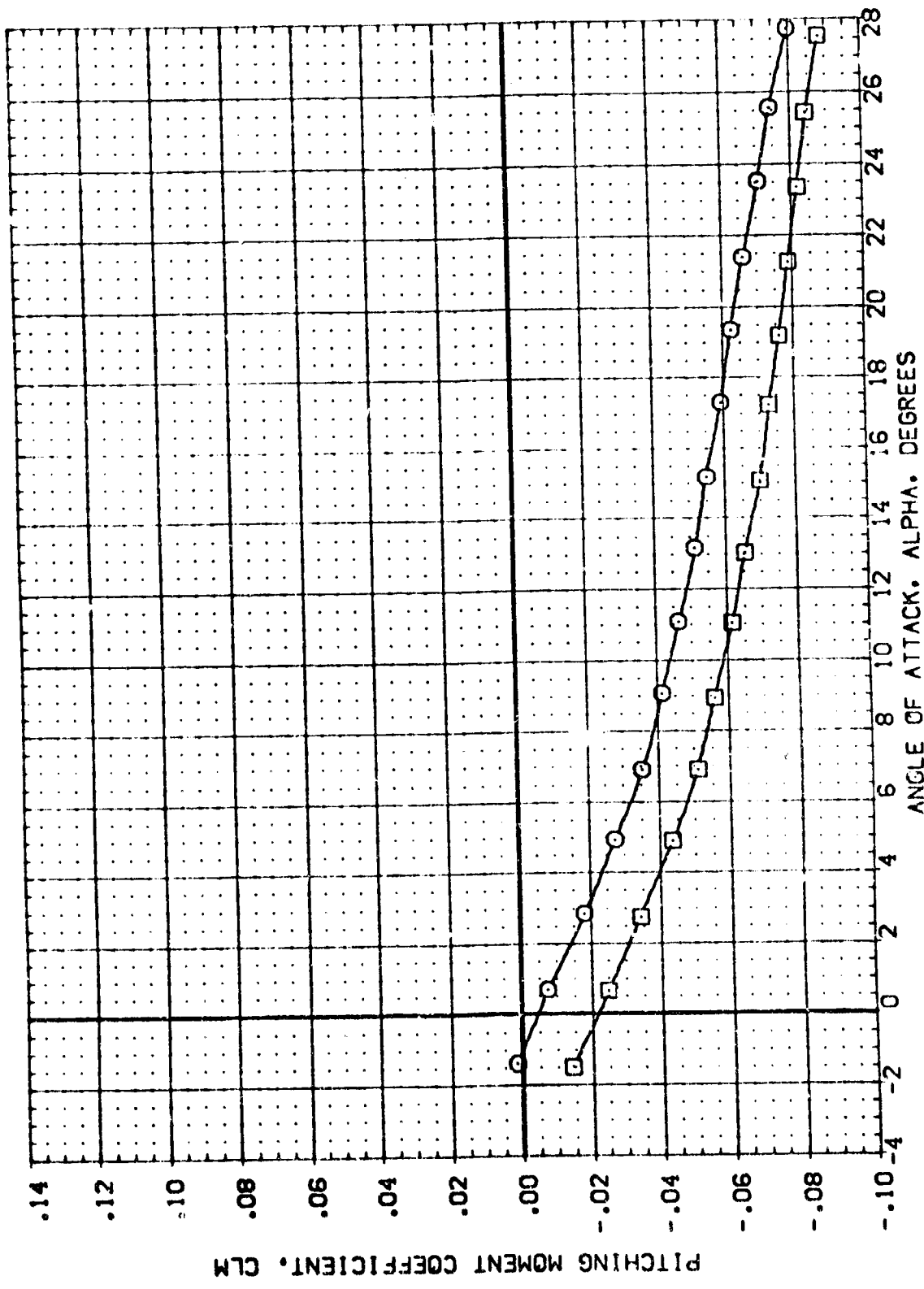


FIG. 9 SPEED BRAKE DEFLECTED

(C)MACH = 2.00



DATA SET : 180. CONFIGURATION DESCRIPTION
 (281004) : [] AYES 66-703 0A13 B10 CS D7 M3 F4 V87E18 VSRS
 (281024) : [] AYES 66-703 0A13 B10 CS D7 M3 F4 V87E18 VSRS

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000
 BREF 936.8600
 XREF 1103.2400
 YREF 0.0000
 ZREF 400.0000
 SCALE 0.0150

BOOFLP ELEVON SPOBRK RUDDER
 -14.200 .000 .000
 -14.200 .000 .000

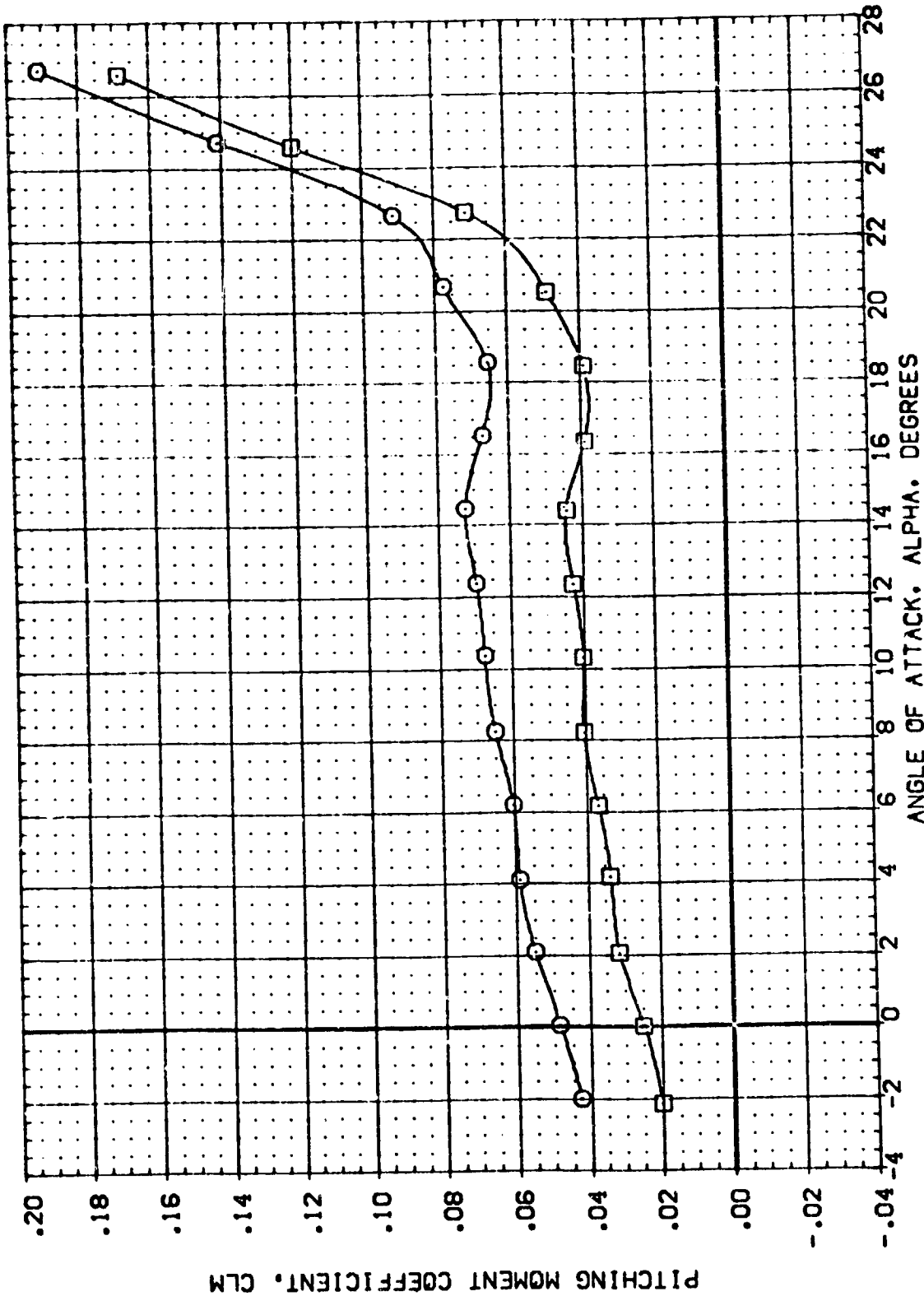


FIG. 9 SPEED BRAKE DEFLECTED (AFT C.G.)

(A)MACH = .60

DATA SET SYMOL: 9
 (281004)
 (281071)

CONFIGURATION DESCRIPTION
 AXES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSR5
 AXES 66-706 CA13 B10 CS D7 M3 F4 V87E18 VSR5

BOOF LP: -14.200
 -14.200

ELEVON: .000
 .000

SPOBRK: 54.900
 54.900

RUDDER: .000
 .000

REFERENCE INFORMATION
 SREF: 2690.0000 50.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XPROP: 1103.2400 IN.
 YPROP: .0000 IN.
 ZPROP: 400.0000 IN.
 SCALE: .0130 SCALE

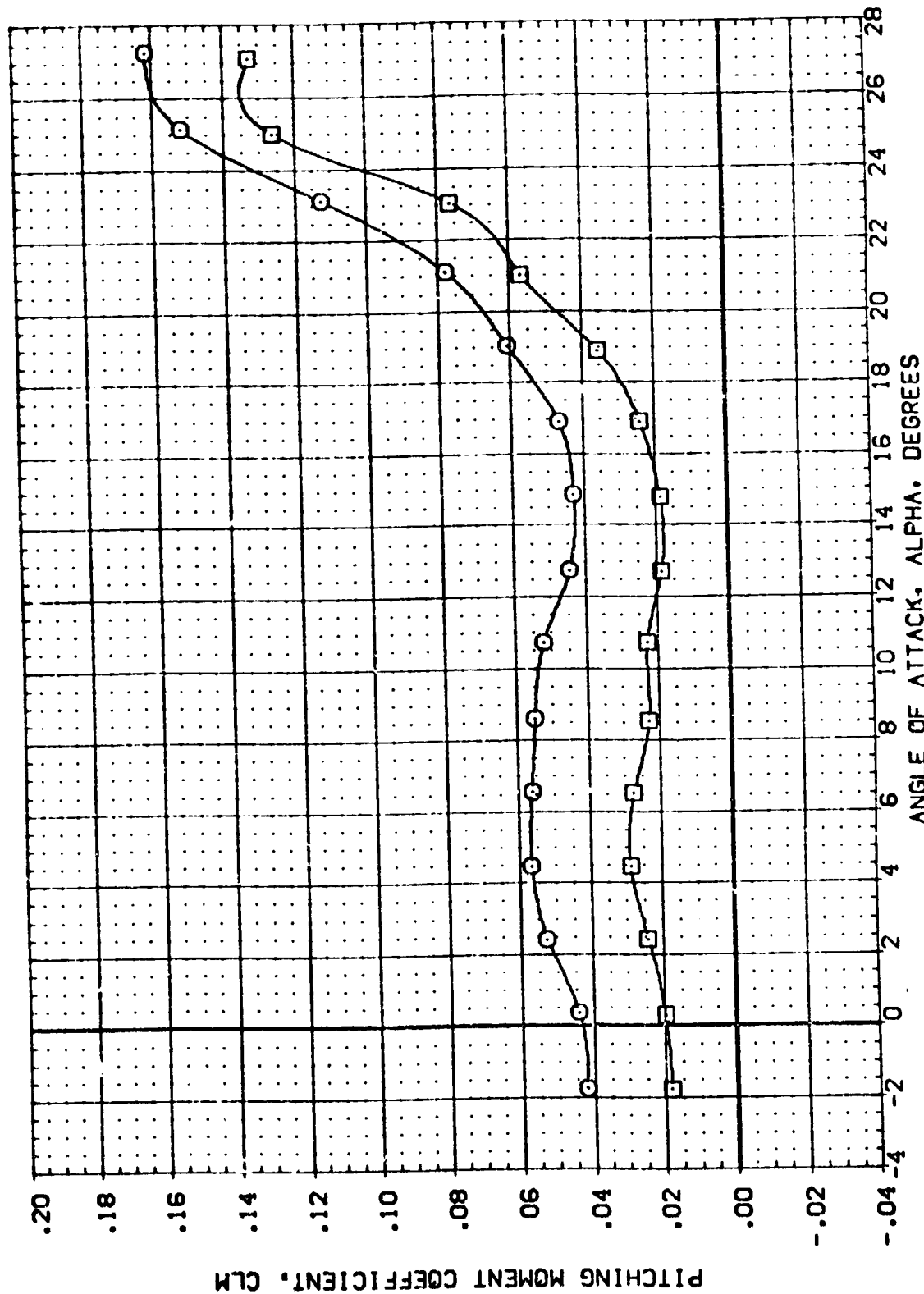


FIG. 9 SPEED BRAKE DEFLECTED (AFT C.G.)

(B)MACH = .91



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPODBK	RUDER	REFERENCE INFORMATION
(28T004)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V585	-14.200	.000	54.900	.000	SREF 2650.0000 SQ.FT.
(28T024)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 V585	-14.200	.000	24.900	.000	LREF 474.8000 IN.
						BREF 936.6900 IN.
						YREF 1103.2400 IN.
						ZREF .0000 IN.
						SCALE 400.0000 IN.
						SCALE .0150

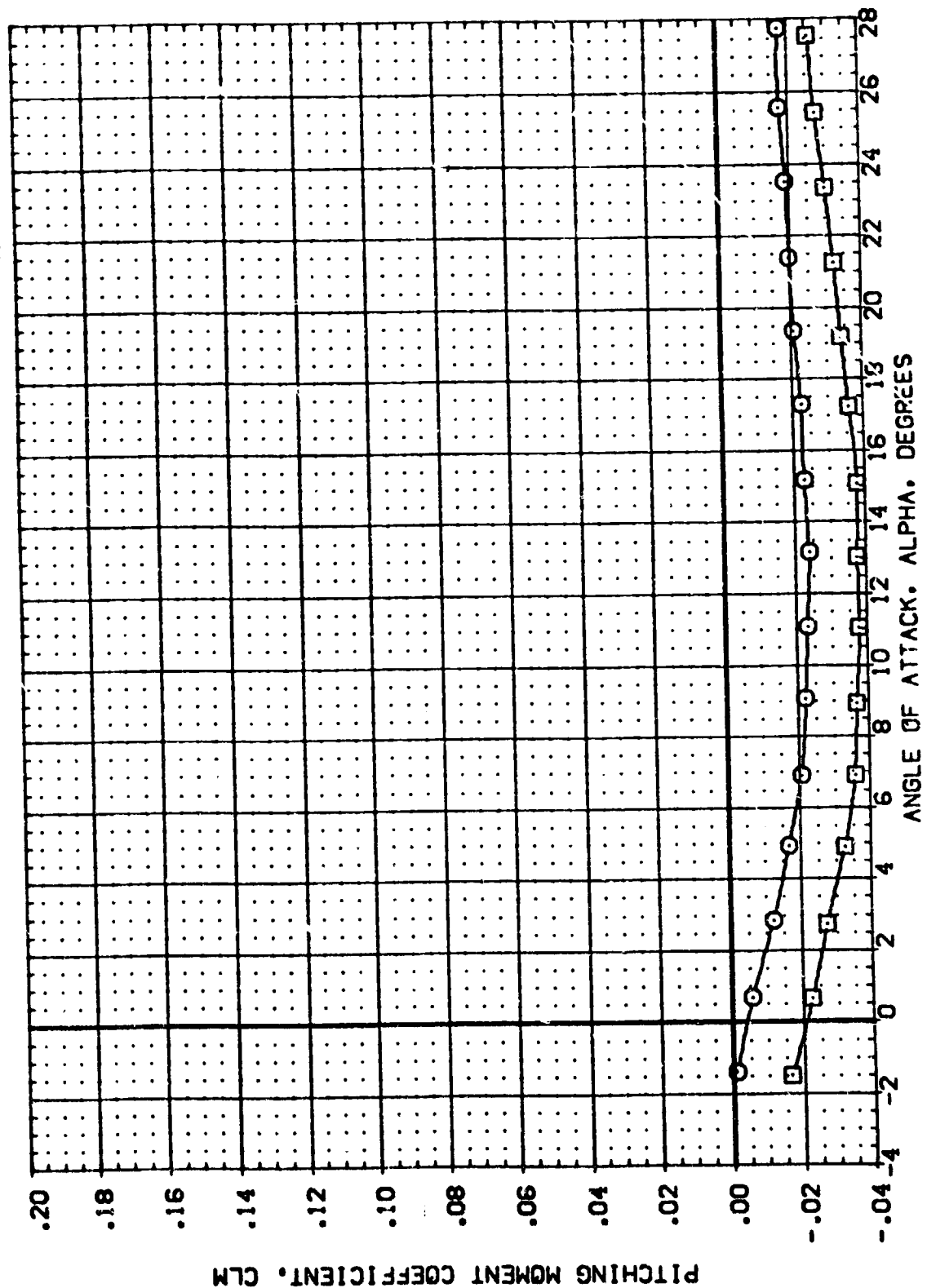


FIG. 9 SPEED BRAKE DEFLECTED (AFT C.G.)

(C)MACH = 2.00

(7810004)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5RS

REFERENCE INFORMATION
 SREF 2690.0000 90.FT.
 LREF 474.8000 IN.
 BREF 936.3800 IN.
 XTRP 1076.4800 IN.
 YTRP 400.0000 IN.
 ZTRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 .000 ELEVON .000
 .000 DPOBK 30.000
 -14.200 RUDDER .000
 .000 ELVN-R .000

BETA
 .600
 .900
 2.000
 AILRON
 800FLP
 ELVN-L

MACH

SYMBOL
 ○
 □
 ◇

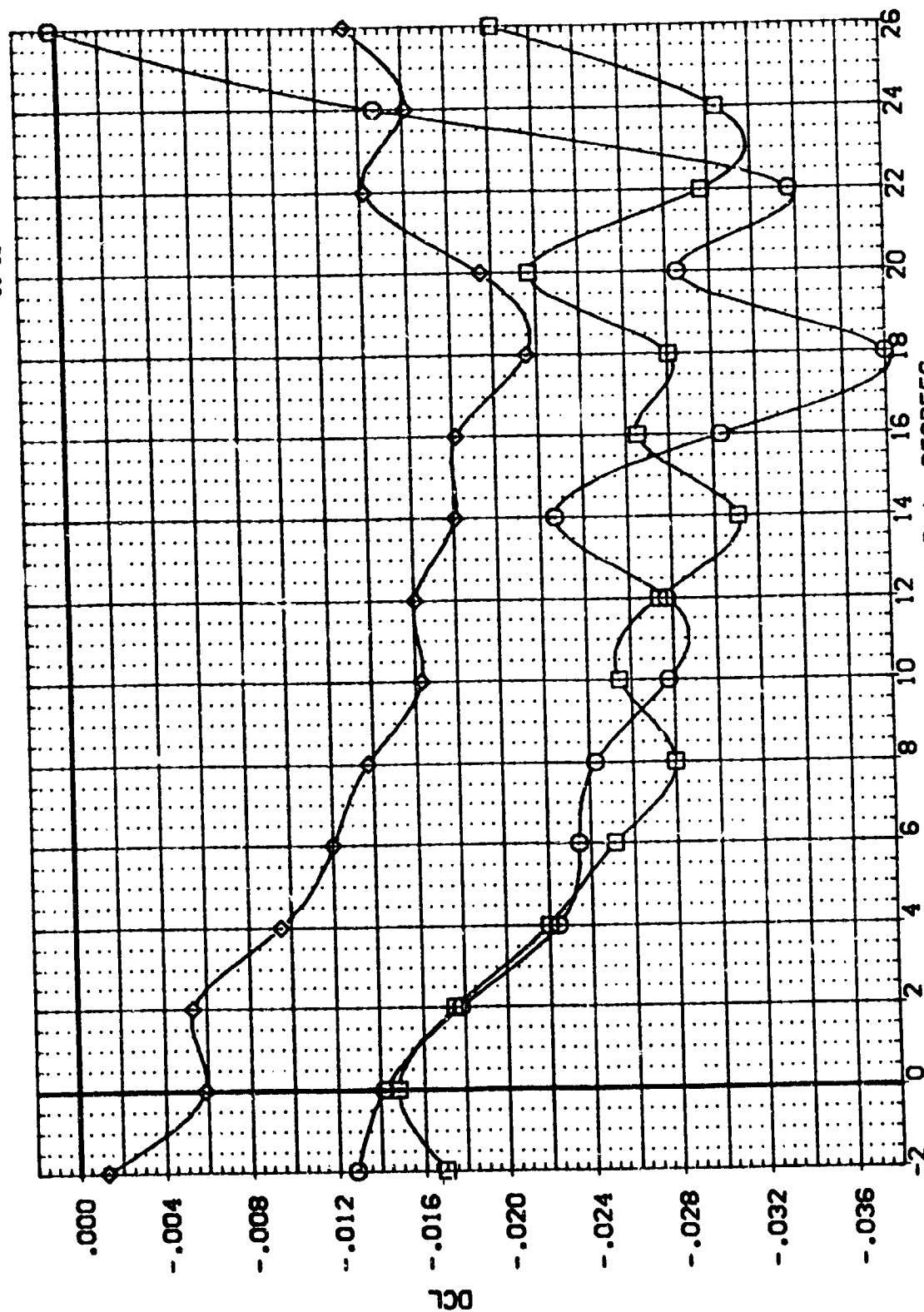


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (78T004)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	DISPOSK	30.000	SREF	2690.0000	30.FT.	
□	.600	.000	.000	.000	.000	LREF	474.8000	IN.	
□	.800	.000	.000	.000	.000	BREF	936.6800	IN.	
◇	2.000	-14.200	.000	.000	.000	XMRP	1076.4800	IN.	
		ELVN-L	.000	ELVN-R	.000	YMRP	.0000	IN.	
						ZMRP	400.0000	IN.	
						SCALE	.0150	SCALE	

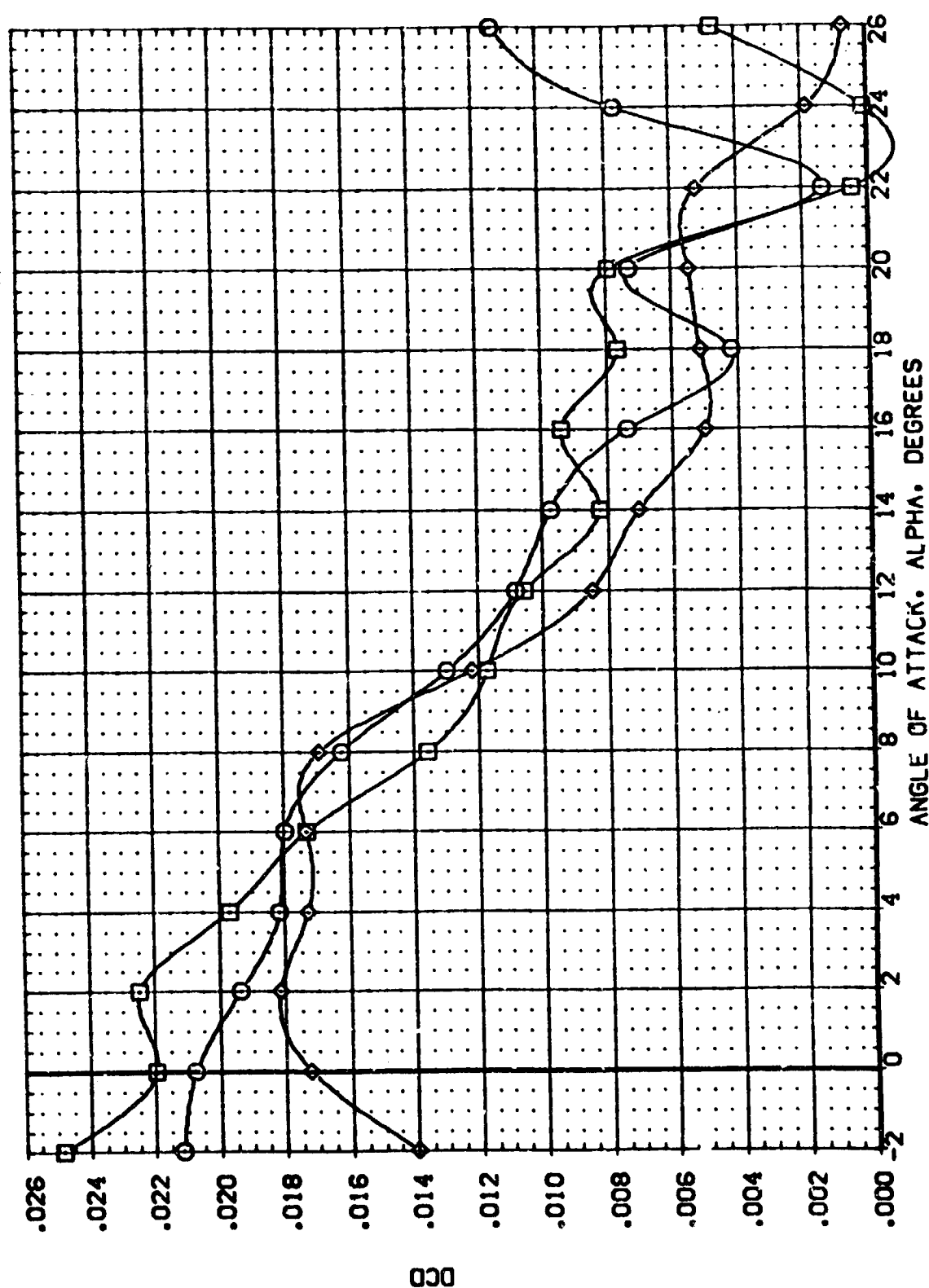


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 VSR5 (78T004)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	DISPOBK	RUDER	SREF	LREF	2650.0000	50.FT.
□	.600	.000	.000	.000	.000	474.8000	936.6800	N.N.	N.N.
◇	.900	.000	.000	.000	.000	1076.4800	400.0000	N.N.	N.N.
◇	2.000	-14.200	.000	.000	.000	400.0000	400.0000	N.N.	N.N.
		ELVN-L	ELVN-R			SCALE		.0150	SCALE

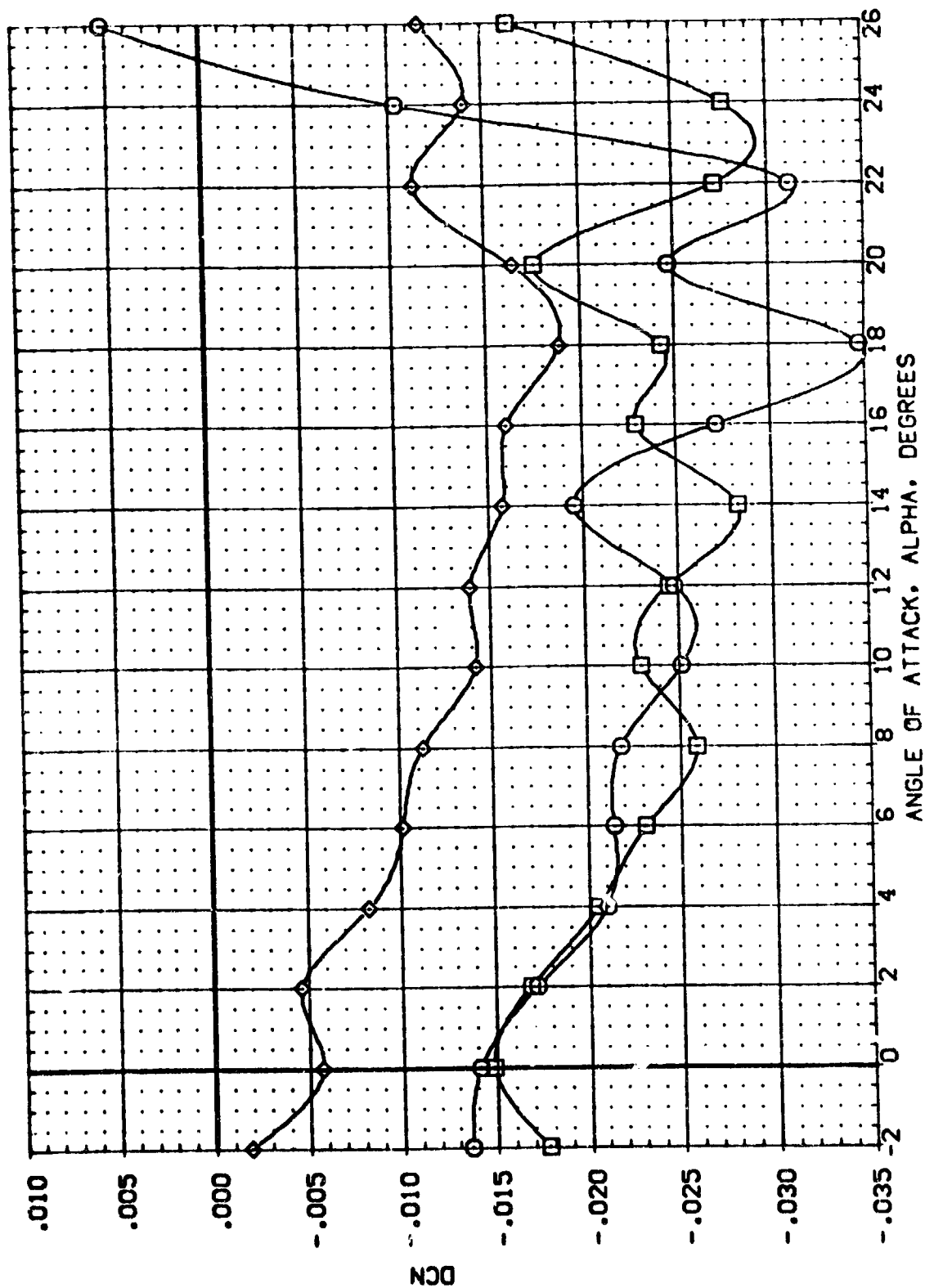


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE

(781004)

AMES 66-706 CA43 B:0 C5 D7 M3 F4 W87E18 V5R5

SYMBOL
□
○
◇

MACH
.500
.500
2.000

BETA
AIRLON
BOOFLP
ELVN-I

PARAMETRIC VALUES
.000
.000
.000
-14.200
.000
ELVN-R

ELEVON
30.000
.000
.000

REFERENCE INFORMATION
SREF 2650.0000
LREF 474.8000
BREF 936.6800
XMRP 1076.4800
YMRP .0000
ZMRP .0000
SCALE 400.0000
SCALE .0150

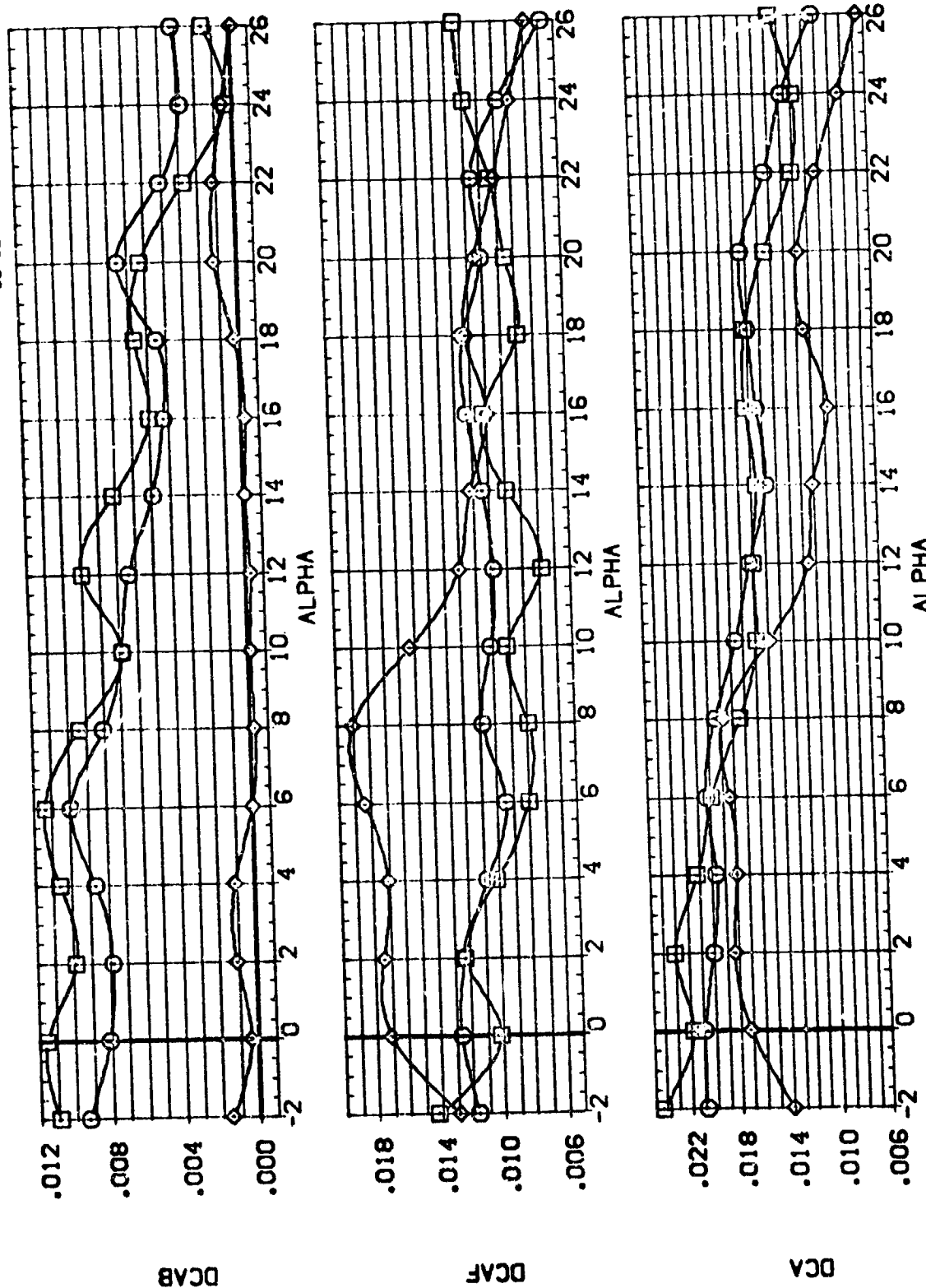


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE

(7B7004)

SYMBOL	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
□	.600	BETA	SREF 2690.0000
□	.900	AILRON	LREF 474.8000
◇	2.000	BOOPLP	BREF 936.6000
		ELVN-L	XREF 1076.4800
			YREF .0000
			ZREF 400.0000
			SCALE .0150

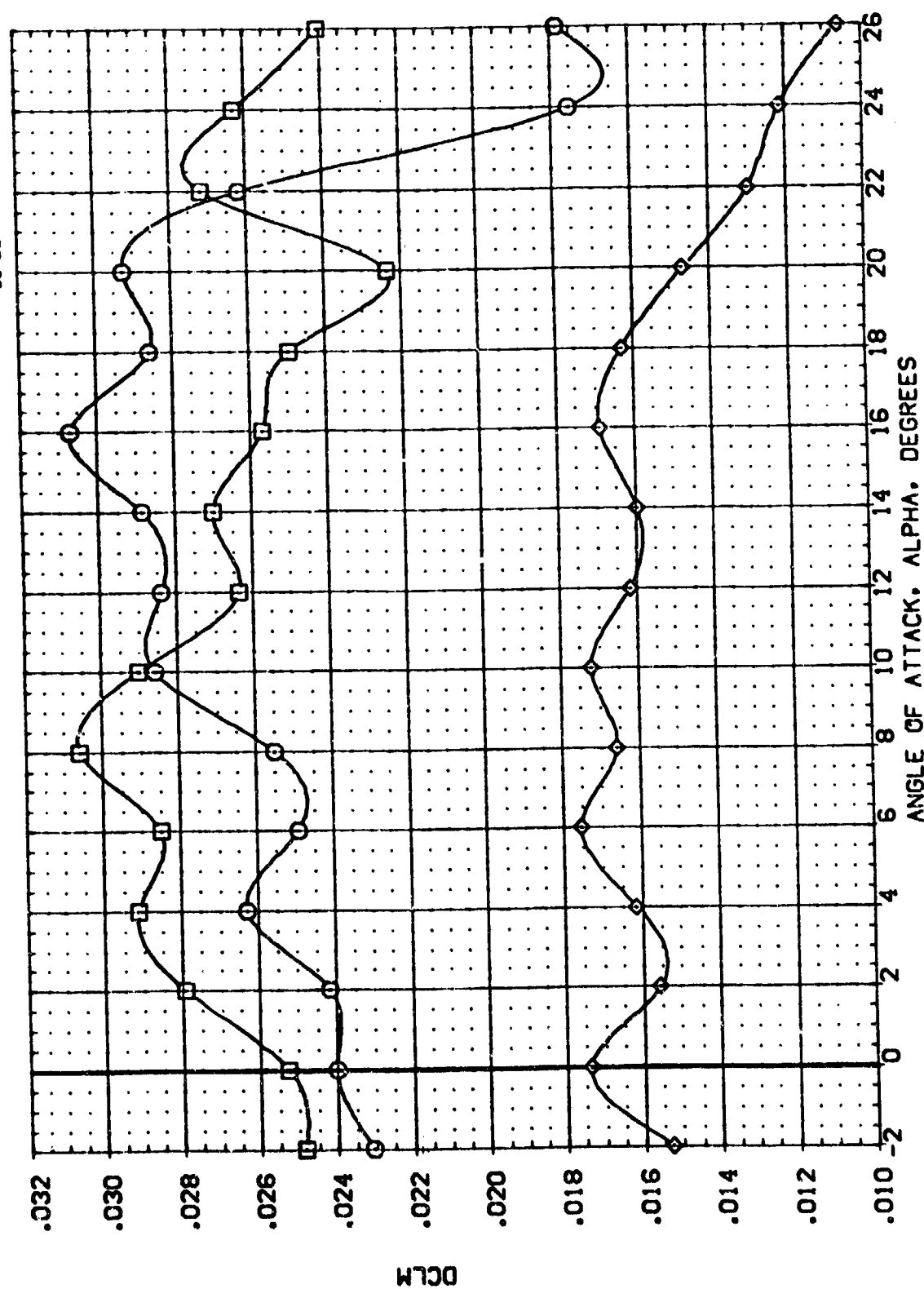


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (8BT004)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION	SC.FT.
○	.500	.000	ELEVON	SREF	2690.0000
□	.900	.000	DISPOBK	LREF	474.8000
◇	2.000	-14.200	RJCTER	BREF	936.6800
		.000	ELVN-L	XREF	1103.2400
		.000	ELVN-R	YREF	400.0000
				ZREF	400.0000
				SCALE	.0150

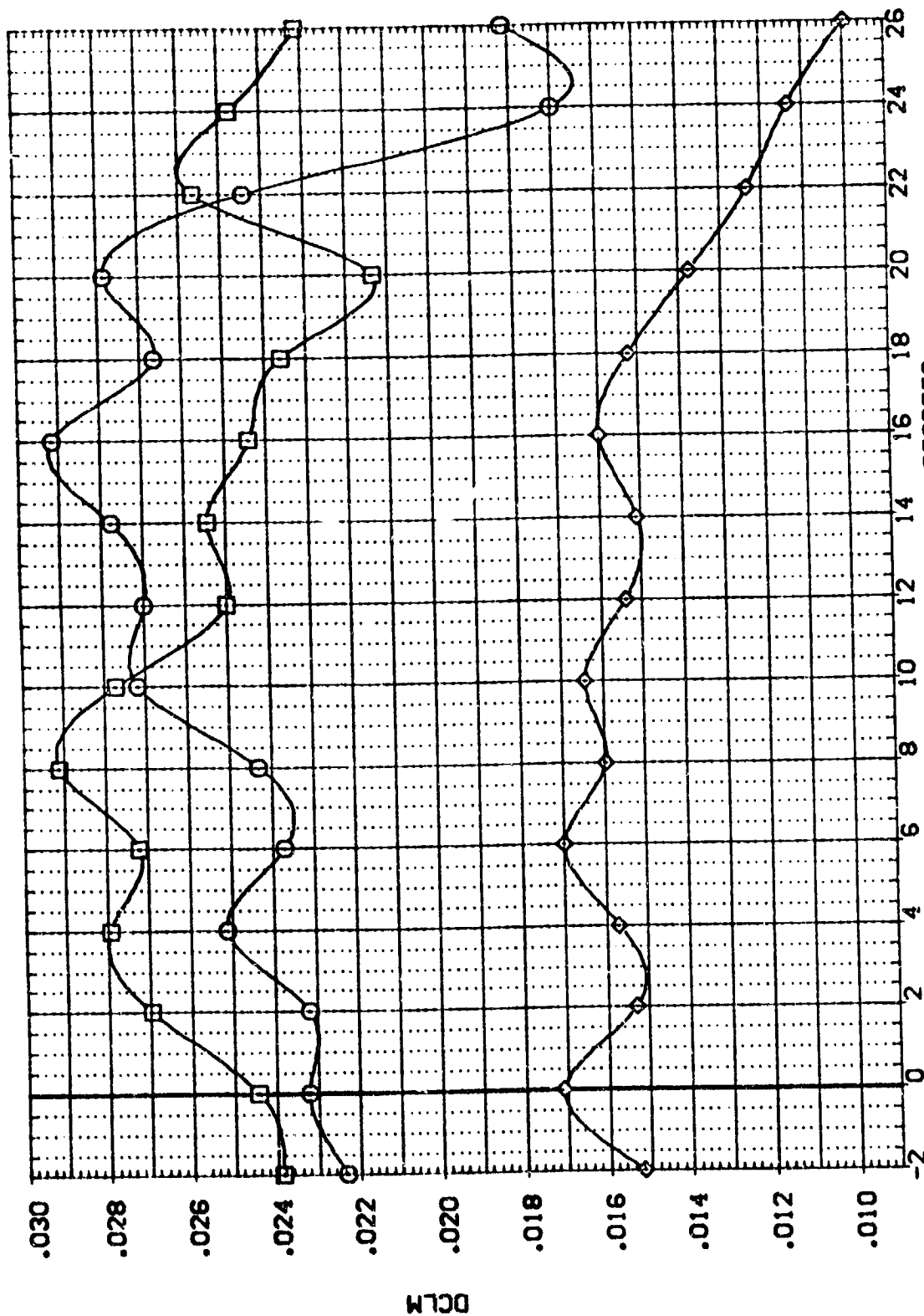


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE (AFT C.G.)



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (9BT004)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	ELEVON	SREF	2690.0000	50. FT.	
□	.000	.000	.000	.000	LREF	474.8000	IN	
□	10.000	.000	.000	30.000	BREF	536.6800	IN	
◇	20.000	-14.200	.000	.000	XREF	1076.4800	IN	
					YREF	400.0000	IN	
					ZREF	400.0000	IN	
					SCALE	.0150	SCALE	

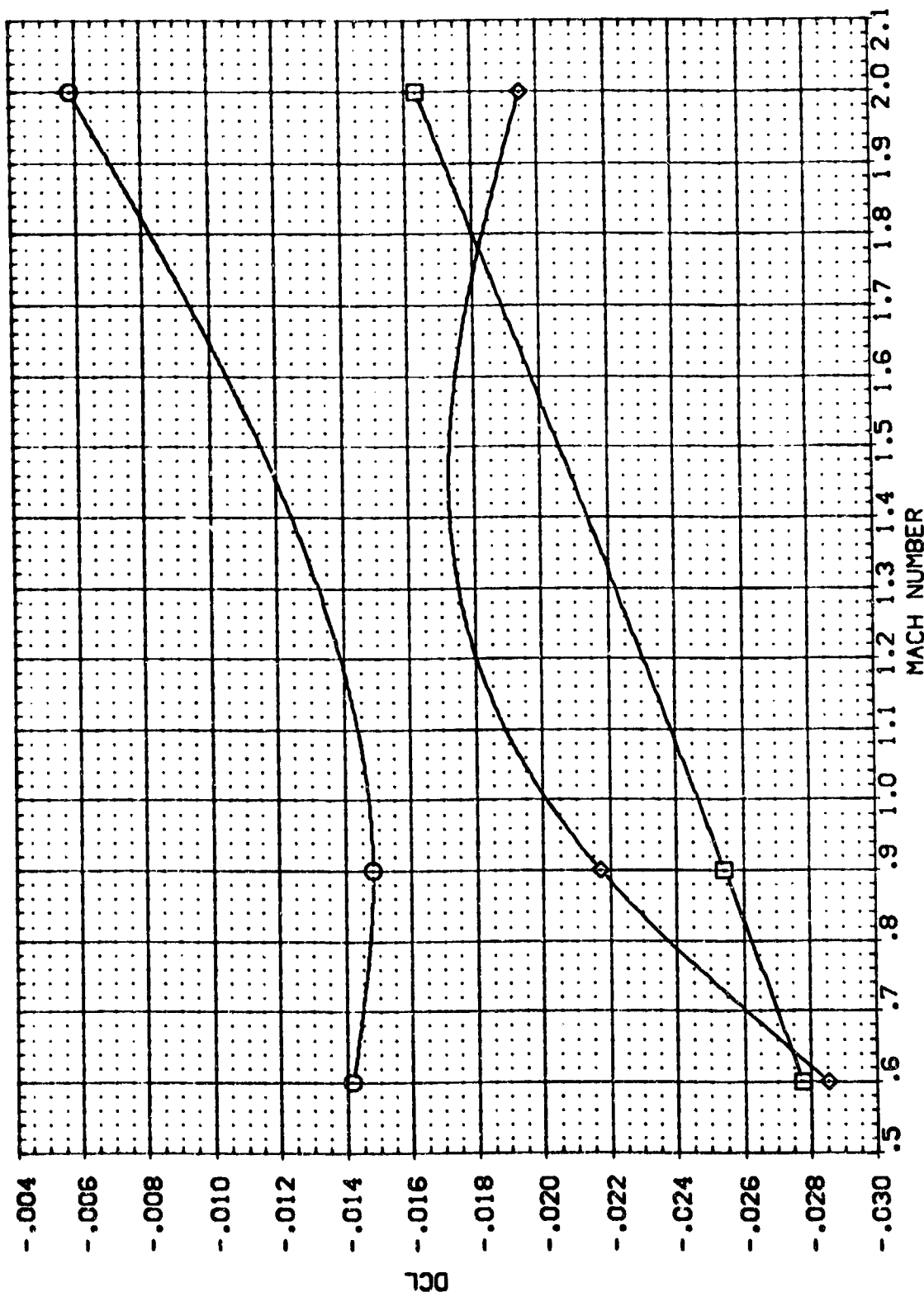


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEV-N	ELEV-N	SREF	IN.	IN.	SCALE
○	.001	.000	.000	.000	2850.0000	174.8000	1075.4800	400.0000
□	.000	.000	.000	.000	174.8000	1075.4800	400.0000	.0150
◇	.000	.000	.000	.000	1075.4800	400.0000	.0150	

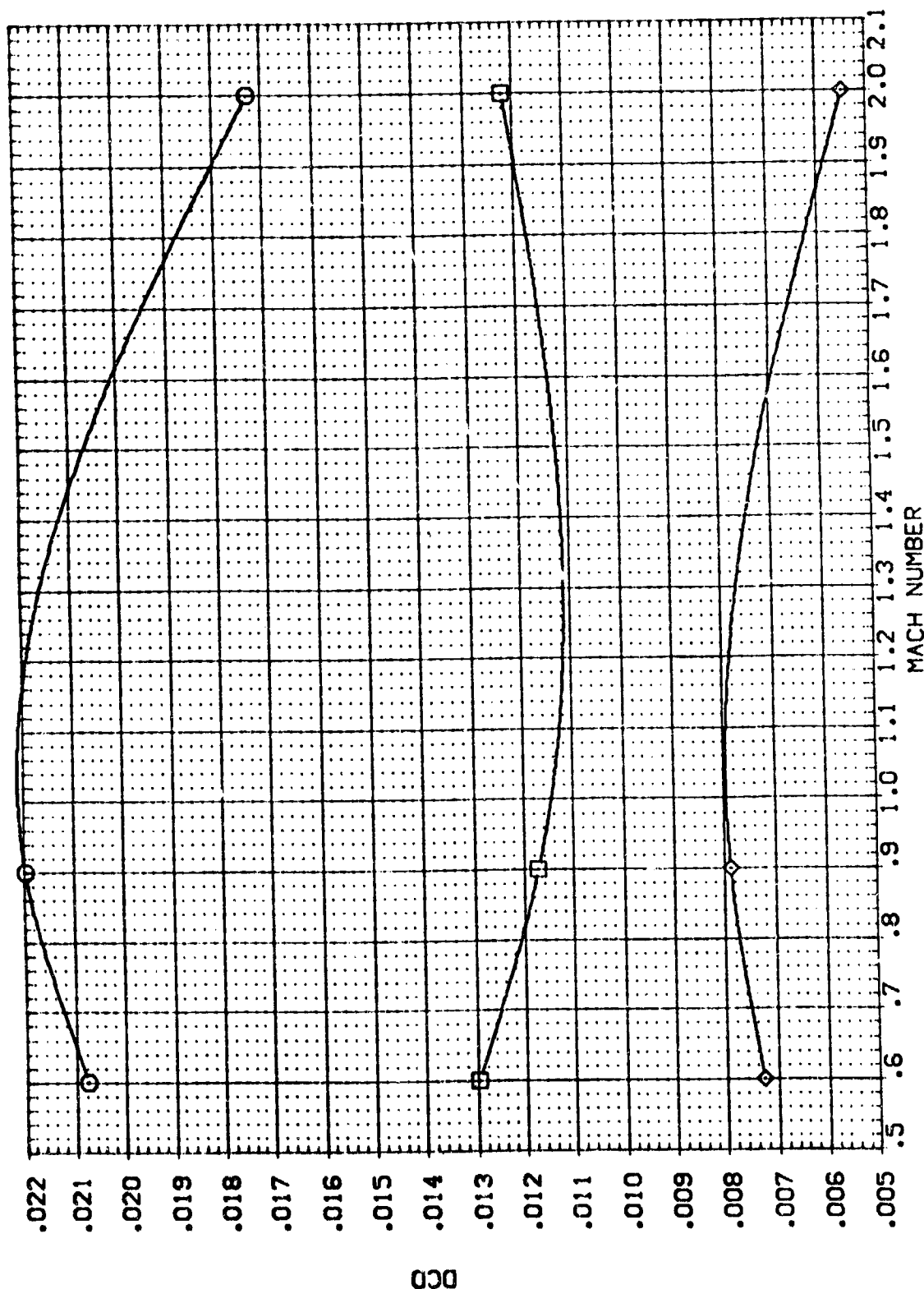


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (98T004)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.000	.000	ELEVON	SREF 2690.0000
□	10.000	.000	DISPOSK	LREF 474.8000
◇	20.000	-14.200	RJCKER	SREF 936.6000
		.000	ELVN-R	XREF 1076.4800
		.000	ELVN-L	YREF 400.0000
		.000		ZREF 400.0000
		.000		SCALE .0150
		.000		SCALE

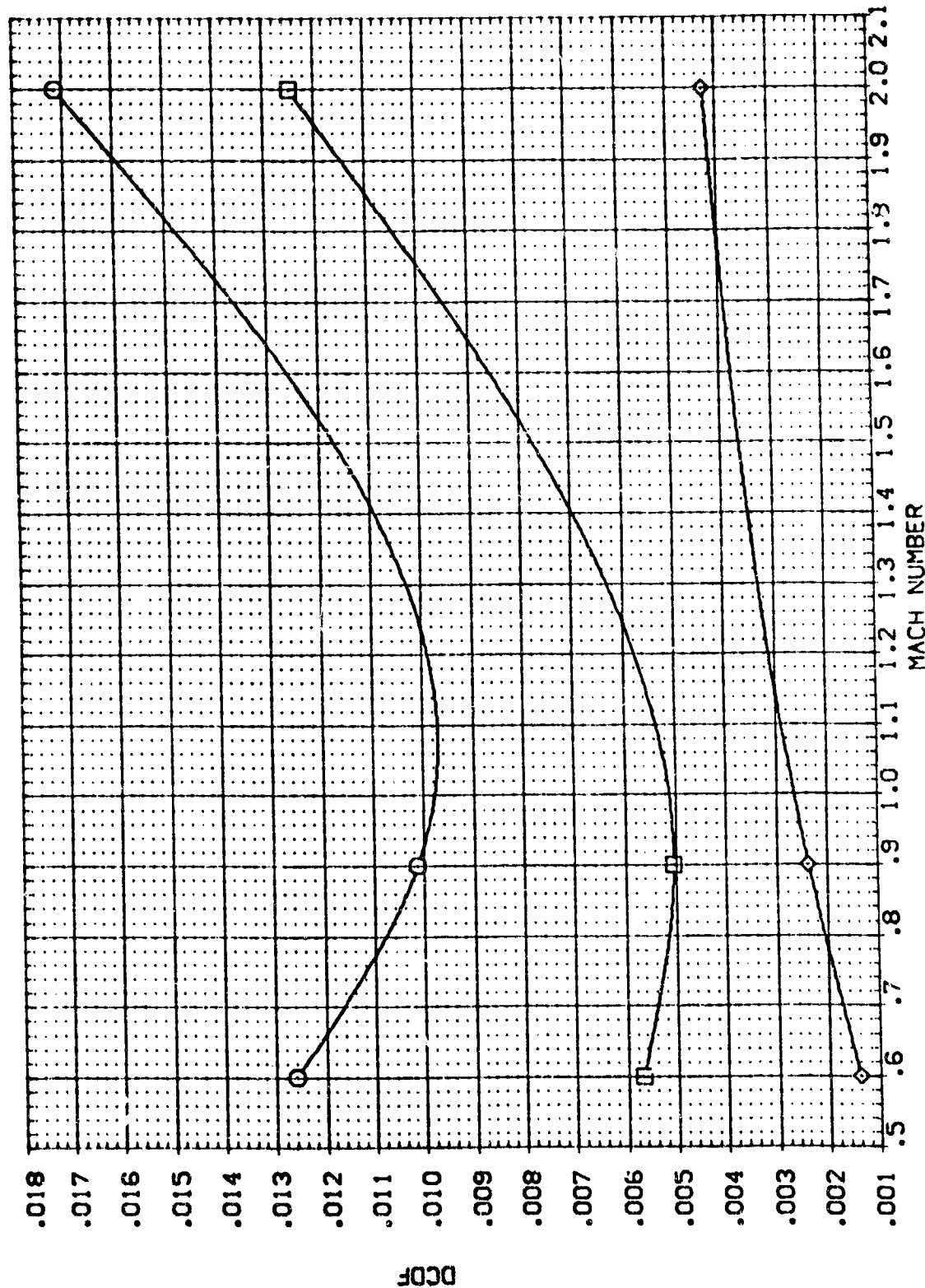


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 CA43 B10 C5 C7 M3 F4 W87E18 V5R5 (981004)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEV-N	ELEV-E	SREF	LREF	IN	SCALE
○	.000	.000	.000	.000	2690.0000	474.8000	1.0000	1.0000
□	10.000	.000	30.000	.000	936.6800	1076.4800	1.0000	1.0000
◇	20.000	-14.000	.000	.000	100.0000	100.0000	1.0000	1.0000

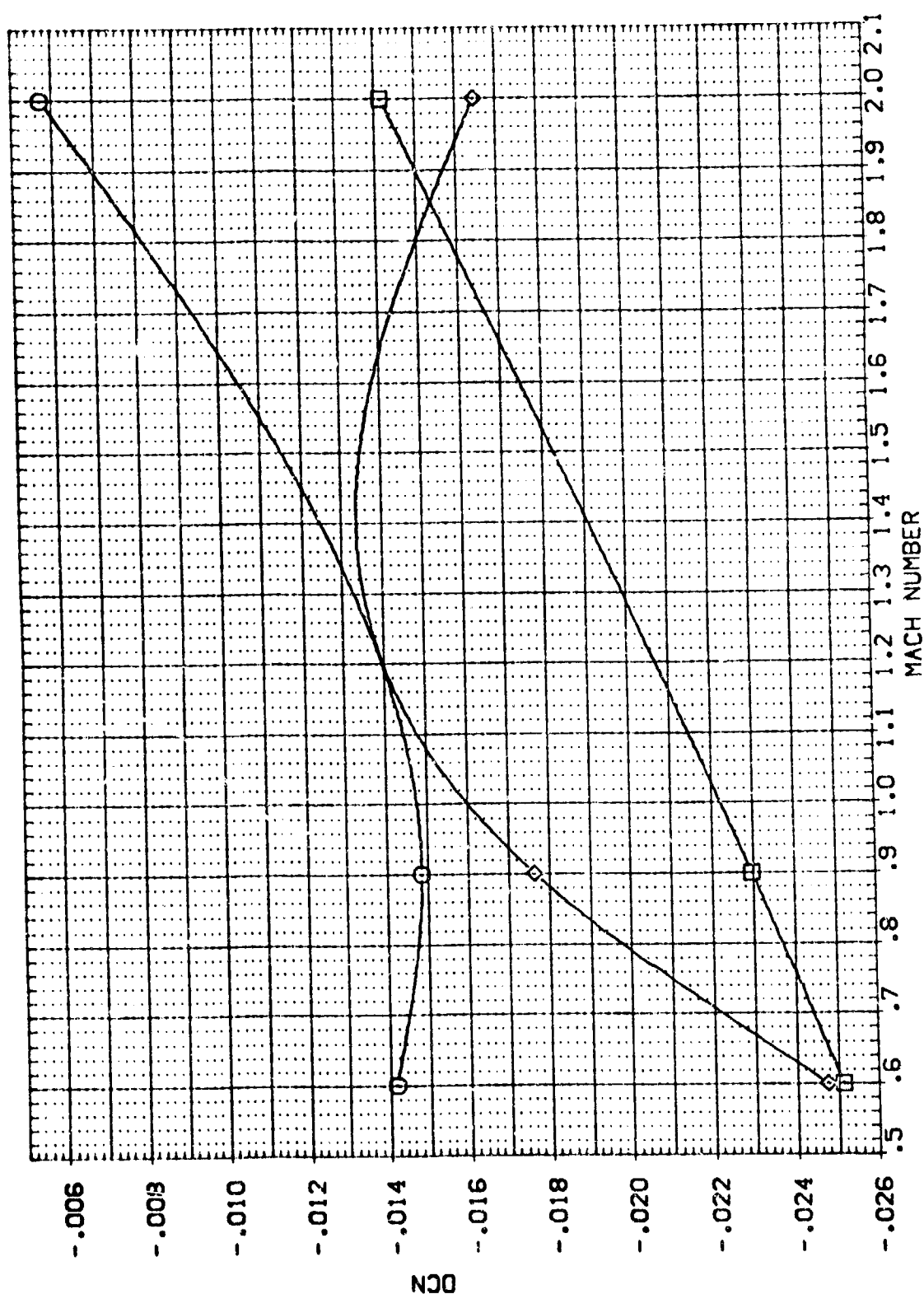


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE

AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 V5R5 (981004)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	ELEVON	SRF	REF	SC.F.T.	SCALE
○	.000	.000	.000	.000	2690.0000	474.8000	1076.1600	.0150
□	.000	.000	.000	.000	936.6800	1076.1600	.0007	
◇	.000	.000	.000	.000	400.0000	.0007		

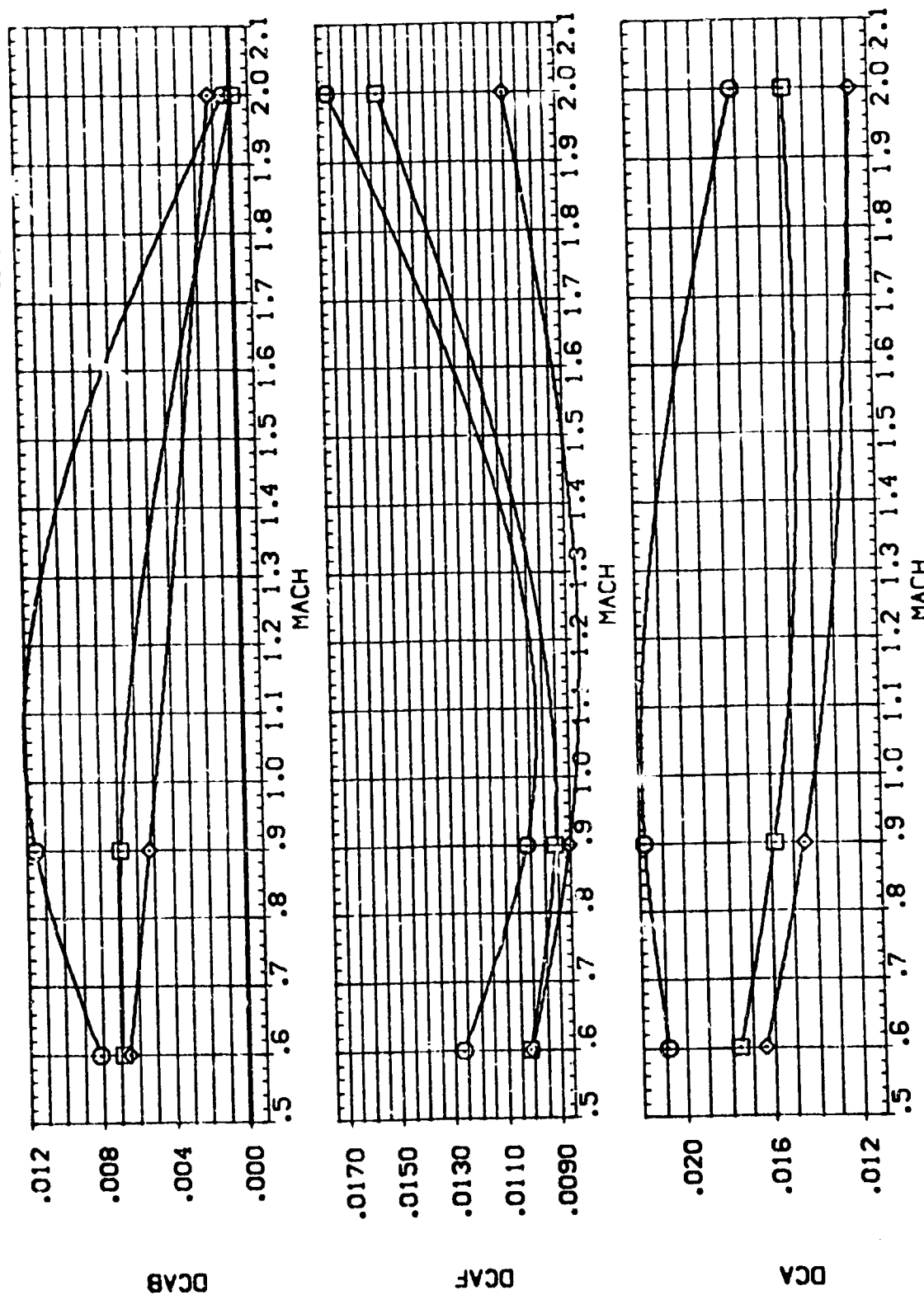


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSRS (9BT004)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEV	ELVN-R	SREF	LREF	BREF	SCALE
○	.000	.000	.000	.000	2690.0000	474.8000	936.5000	100.0000
□	10.000	.000	DISPCK	30.000	1076.4800	1076.4800	1076.4800	100.0000
◇	20.000	-14.200	RJDER	.000	400.0000	400.0000	400.0000	.0150

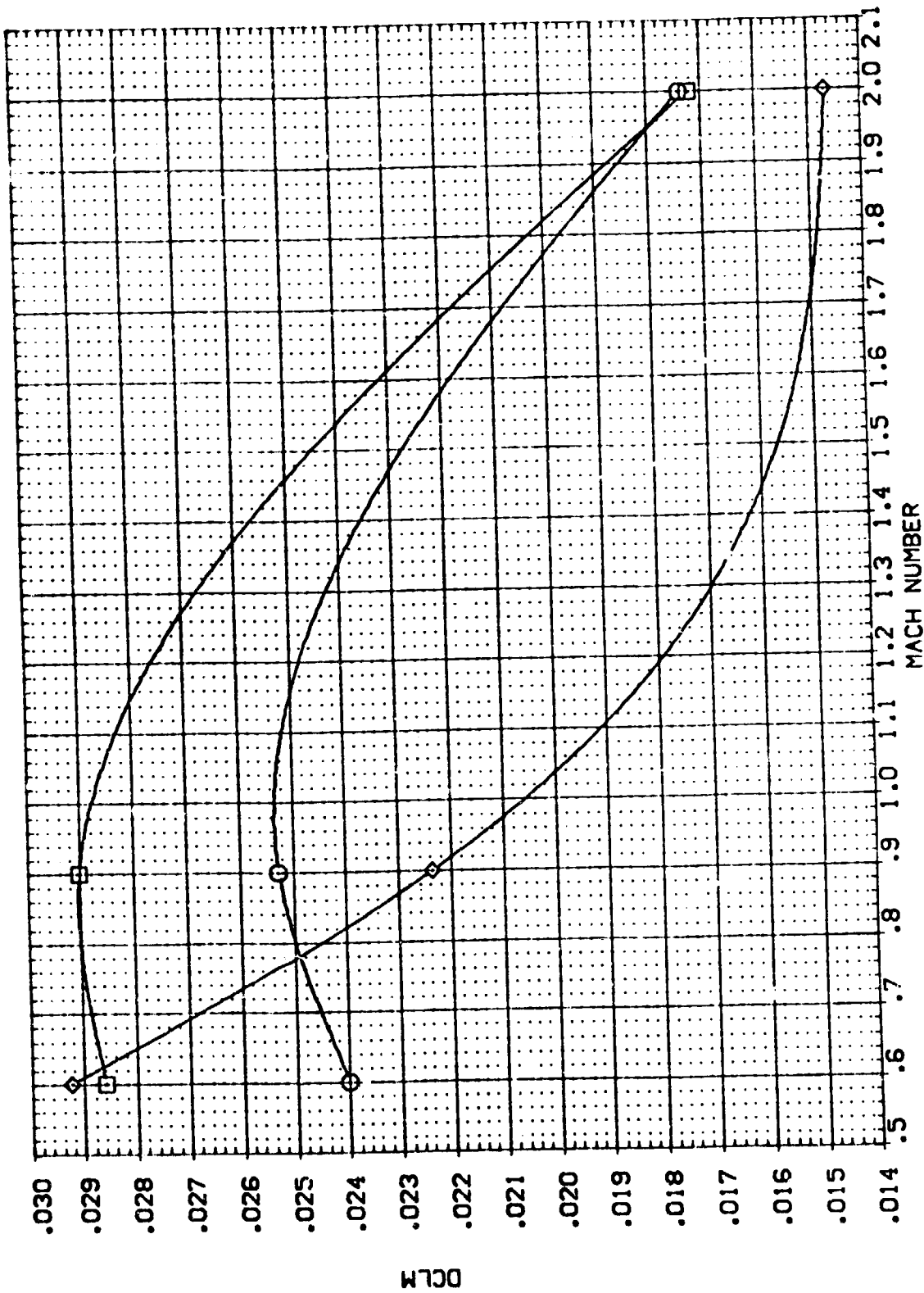


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE



AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 VSR5 (08T004)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	ELEVON	SREF	2690.0000	SG.FT.	
□	.000	.000	.000	.000	LREF	474.8000	IN.	
◇	10.000	AILRON	.000	DSPBOK	BREF	936.6800	IN.	
	20.000	BOOFLP	-14.200	RJDER	XGRP	1103.2400	IN.	
		ELVN-L	.000	ELVN-R	YGRP	.0000	IN.	
					ZGRP	400.0000	IN.	
					SCALE	.0150	SCALE	

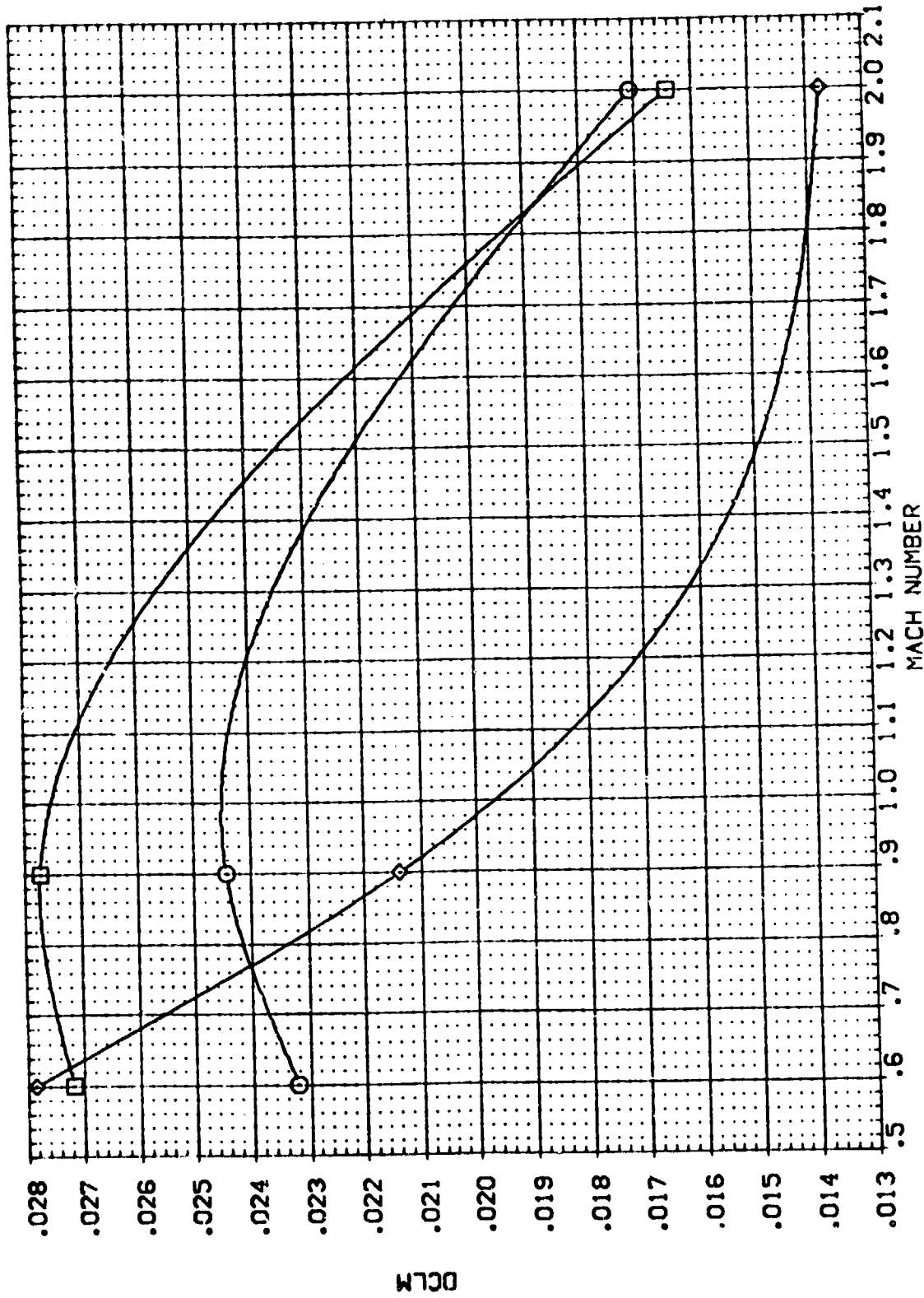


FIG. 10 INCREMENTAL EFFECT OF DEFLECTED SPEED BRAKE (AFT C.G.)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION			
(RPTC:1)	CL	DATA NOT AVAILABLE										-14.200		.000		54.900		.000		SREF	2630.0000	SC.F.T.	
(RPTC:2)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		LREF	474.8000	IN.	
(RPTC:3)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		BREF	936.6800	IN.	
(RPTC:4)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		XMRP	1076.4800	IN.	
(RPTC:5)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		YMRP	100.0000	IN.	
(RPTC:6)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		ZMRP	100.0000	IN.	
(RPTC:7)		APES 66-706 CM43 B10 CS D7 H3 F4 V87E18 V595										.000		.000		54.900		.000		SCALE	.0150	SCALE	

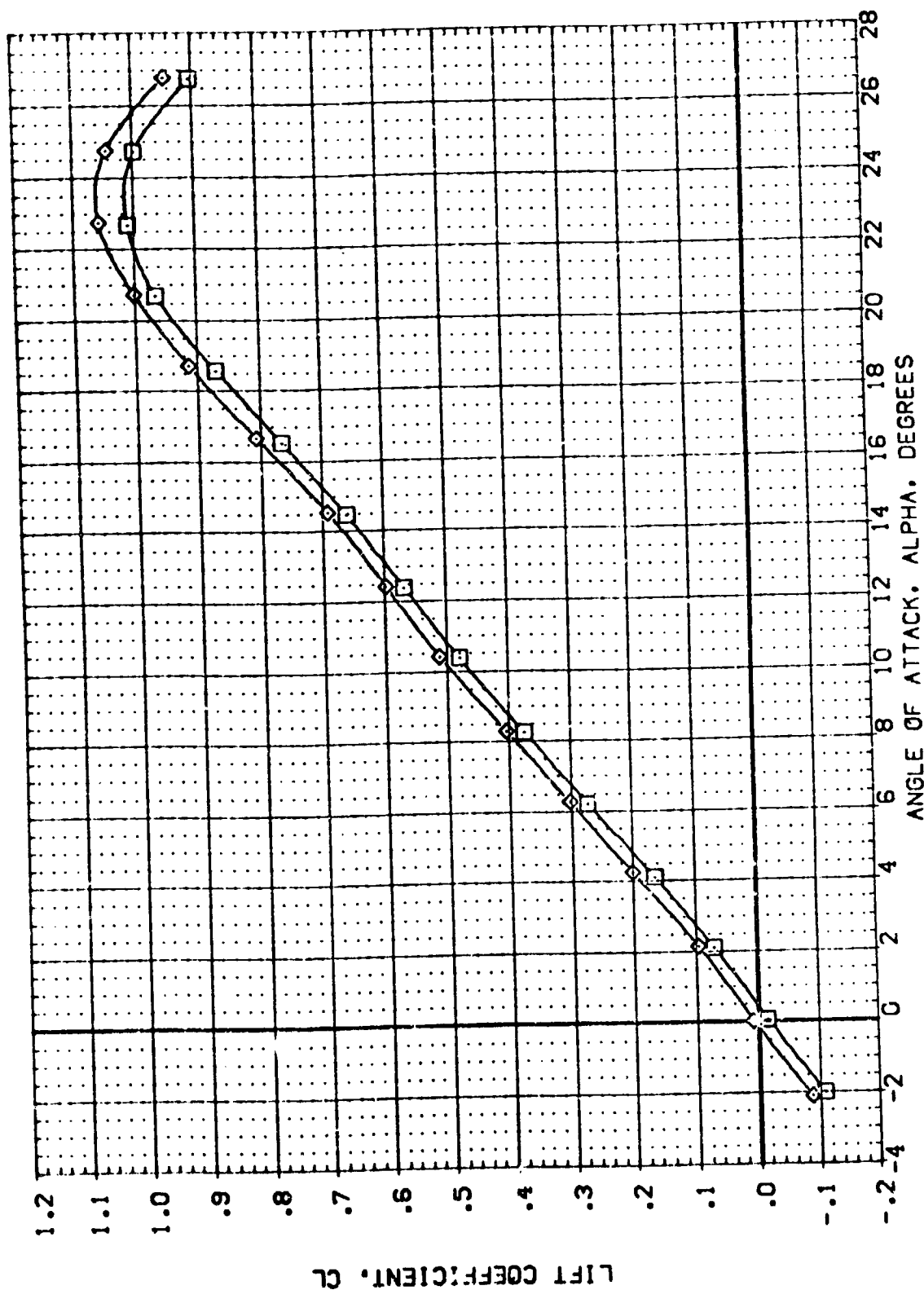


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION		
(RST010)	DATA NOT AVAILABLE											SREF	2690.0000	50. FT.
(RST004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95			-14.200	.000	.000	.000	54.900	.000	.000	.000	LREF	474.8000	IN.
(RST012)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95			.000	.000	.000	.000	54.900	.000	.000	.000	BREF	936.8800	IN.
												XREF	1076.4600	IN.
												YREF	.0000	IN.
												ZREF	400.0000	IN.
												SCALE	.0150	SCALE

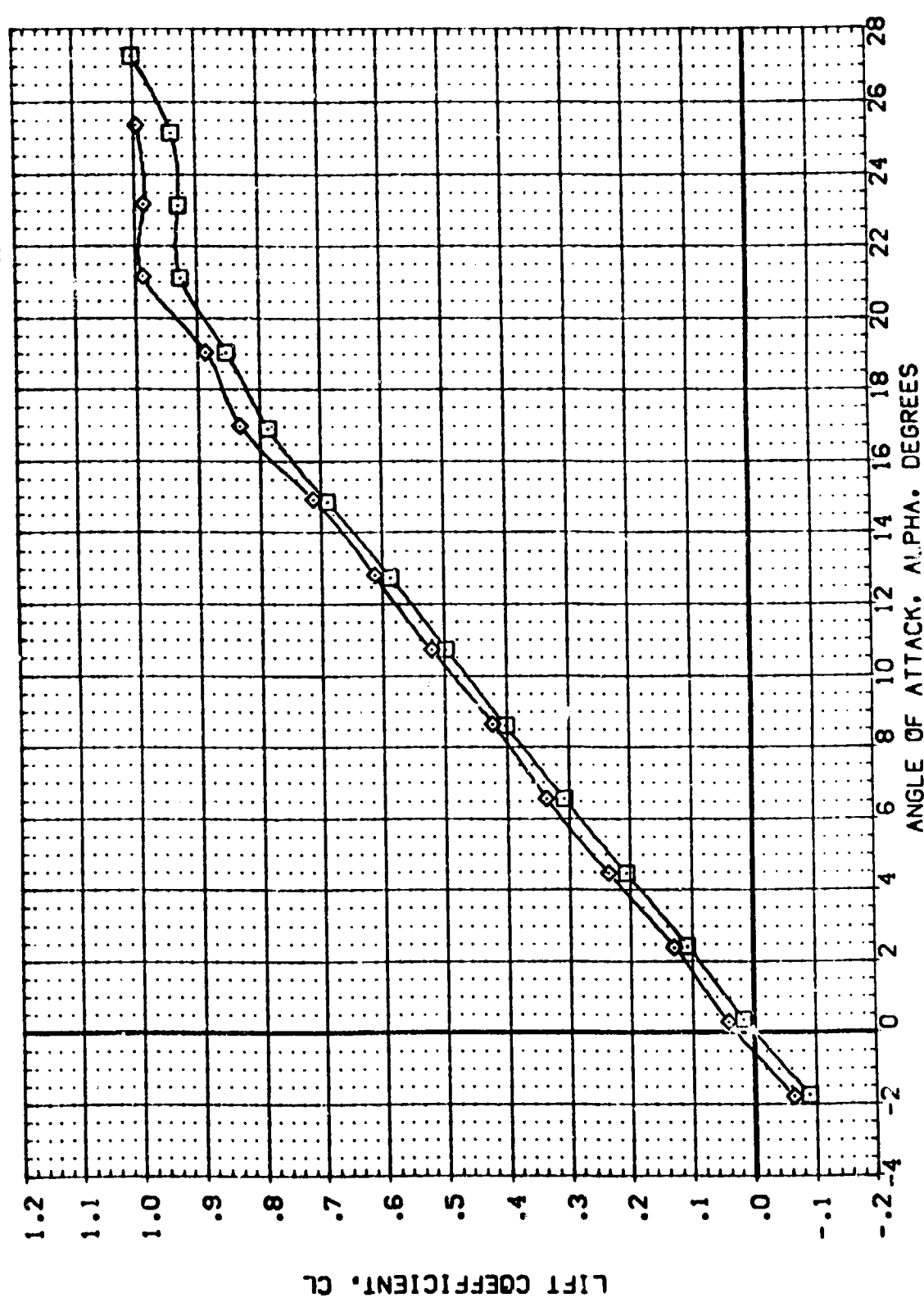


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL: CONFIGURATION DESCRIPTION

(R31010) DATA NOT AVAILABLE

(R31004) ASES 66-708 CA43 B:0 CS D7 M3 F4 V87E18 VSRS

(R31012) ASES 66-708 CA43 B:0 CS D7 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRN RUDDER REFERENCE INFORMATION

-14.200 .000 54.900 .000 SREF 2690.0000 SQ.FT.

.000 .000 54.500 .000 LREF 474.8000

.000 .000 54.500 .000 BRFP 936.5800

.000 .000 54.500 .000 YPRP 1076.4800

.000 .000 54.500 .000 ZPRP .0000

.000 .000 54.500 .000 SCALE 400.0000

.0150 .0150 .0150 .0150

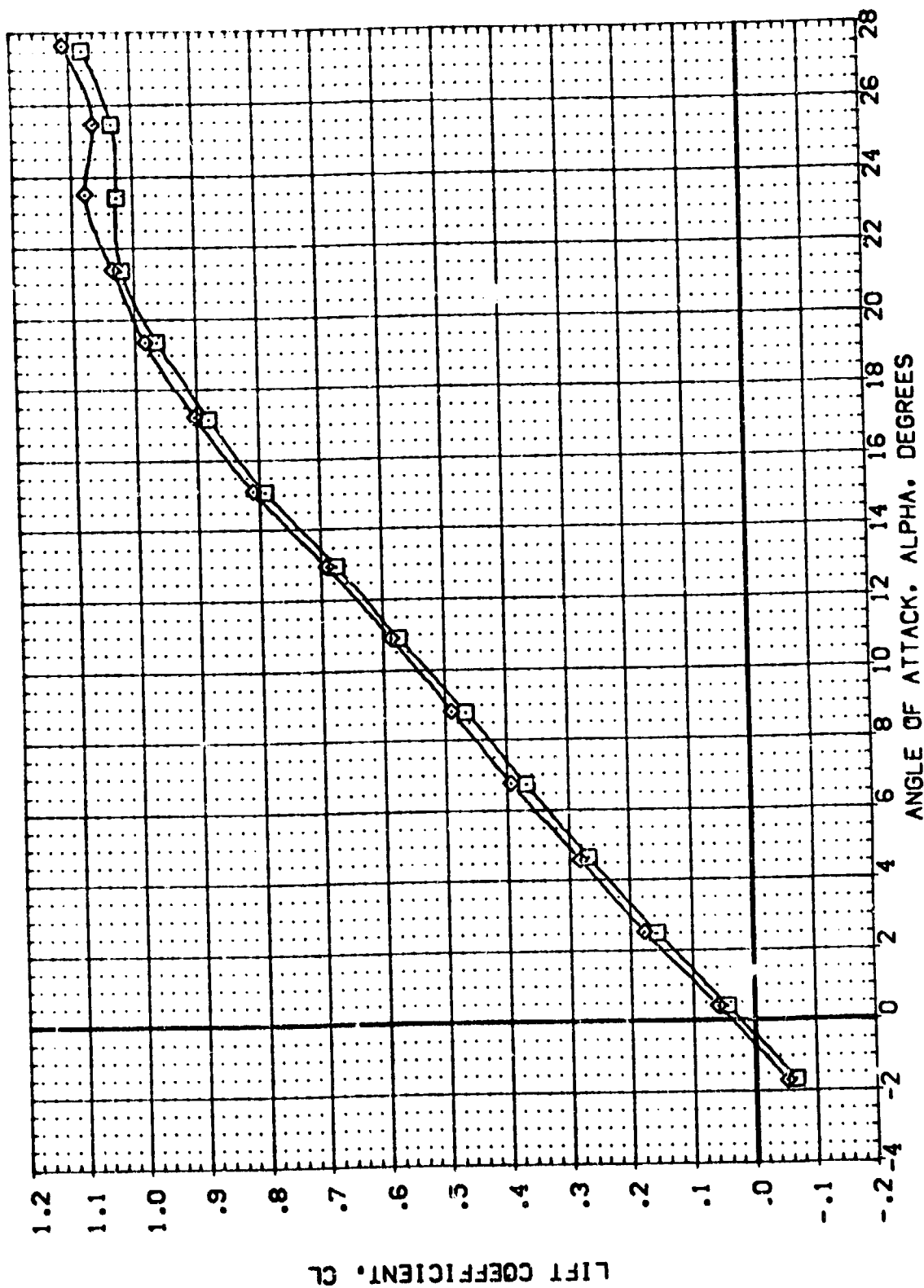


FIG. 1: BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[RST010]	AVES 66-706 DA43 B10 CS D7 M3		.000	54.900	.000	SREF 2690.0000 SQ.FT.
[RST024]	AVES 66-706 DA43 B10 CS D7 M3 F4	-14.200	.000	54.900	.000	LREF 474.8000 IN.
[RST012]	AVES 66-706 DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF 936.2800 IN.
						VMRP 1076.4000 IN.
						ZMRP .0000 IN.
						SCALE 400.0000
						SCALE .0150

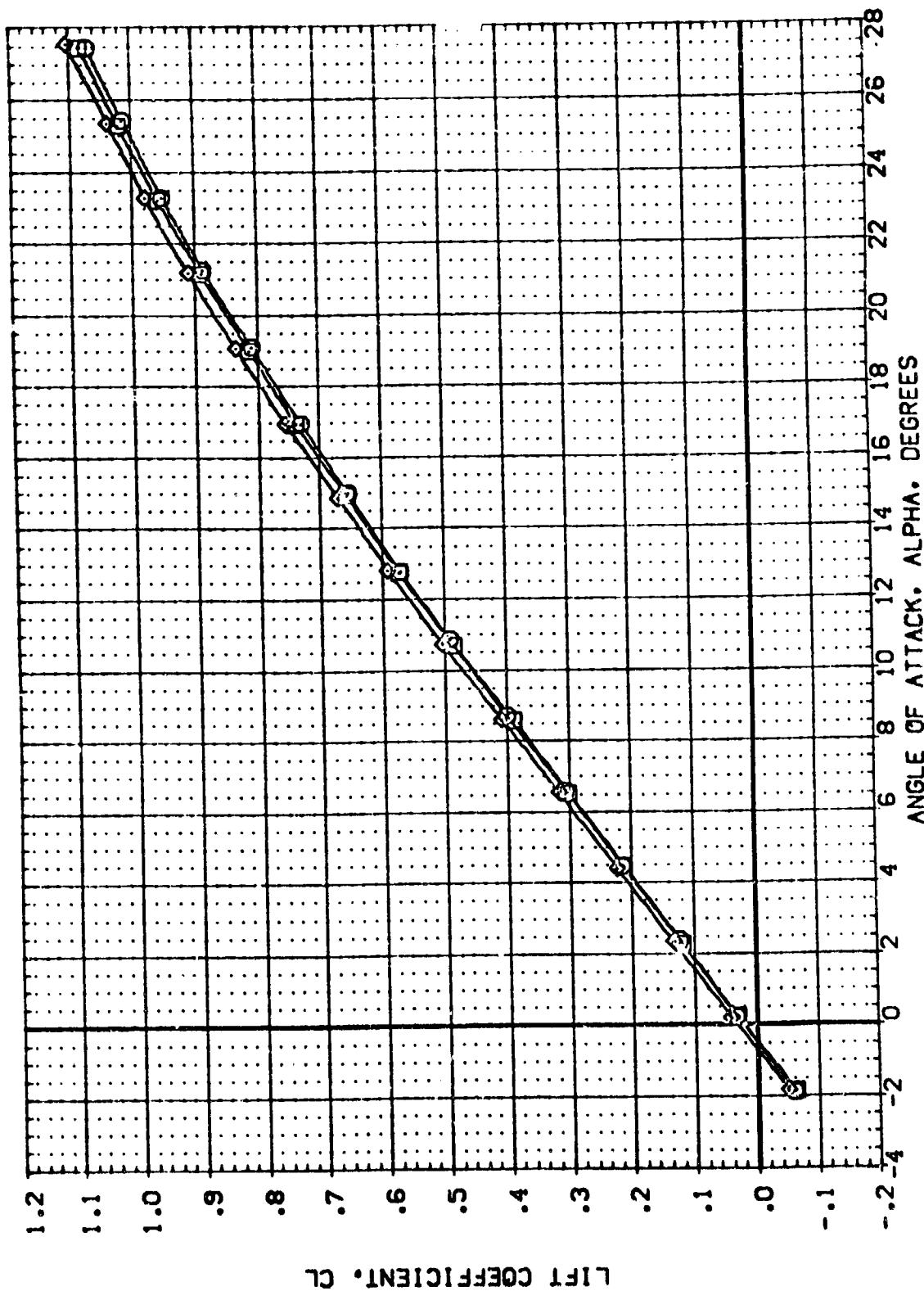


FIG. 11 BODY FLAP EFFECT

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RJODER	REFERENCE INFORMATION
(RBT010)	AVES 66-706 CA43 B10 CS D7 M3	-14.200	.000	54.900	.000	SREF 2630.0000 SQ.FT.
(RBT004)	AVES 66-706 CA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	L REF 474.8000 IN.
(RBT012)	AVES 66-706 CA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF 336.8000 IN.
						XTRP 1076.4800 IN.
						YTRP .0000 IN.
						ZTRP .0000 IN.
						SCALE .0150

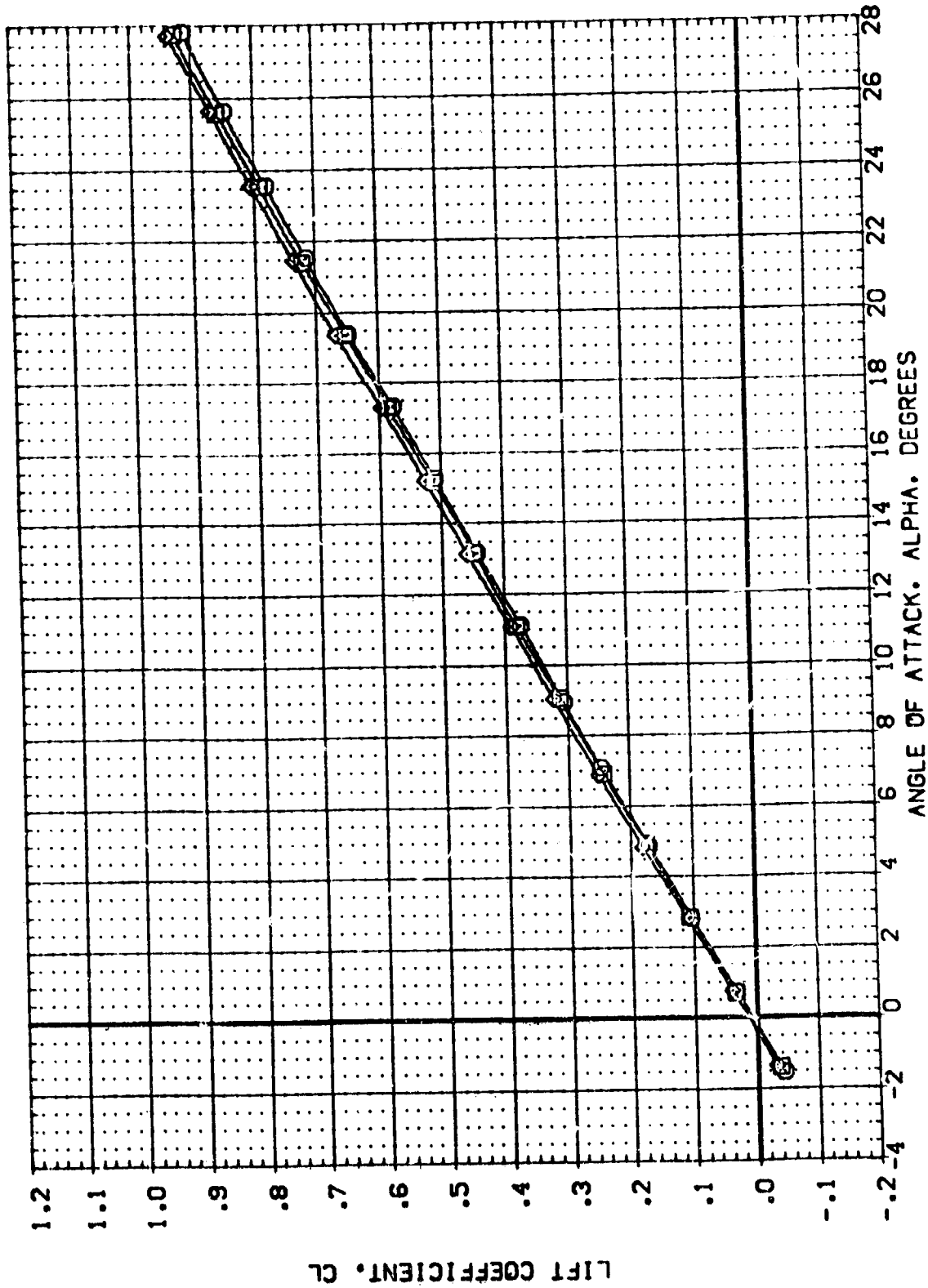


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMB. CONFIGURATION DESCRIPTION

(RPT010) DATA NOT AVAILABLE

(RPT004) AYES 65-70S 0A13 B10 CS 07 M3 F4 V87E18 VSRS

(RPT012) AYES 65-70S 0A13 B10 CS 07 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRK RUDDER REFERENCE INFORMATION

-14.200 .000 54.900 .000 SREF 2690.0000 53.FT.

.000 .000 54.900 .000 LREF 474.8000 IN.

.000 .000 54.900 .000 BRFC 936.6800 IN.

.000 .000 .000 .000 XMRP 1076.4800 IN.

.000 .000 .000 .000 YMRP .0000 IN.

.000 .000 .000 .000 ZMRP 400.0000 IN.

SCALE .0150 SCALE

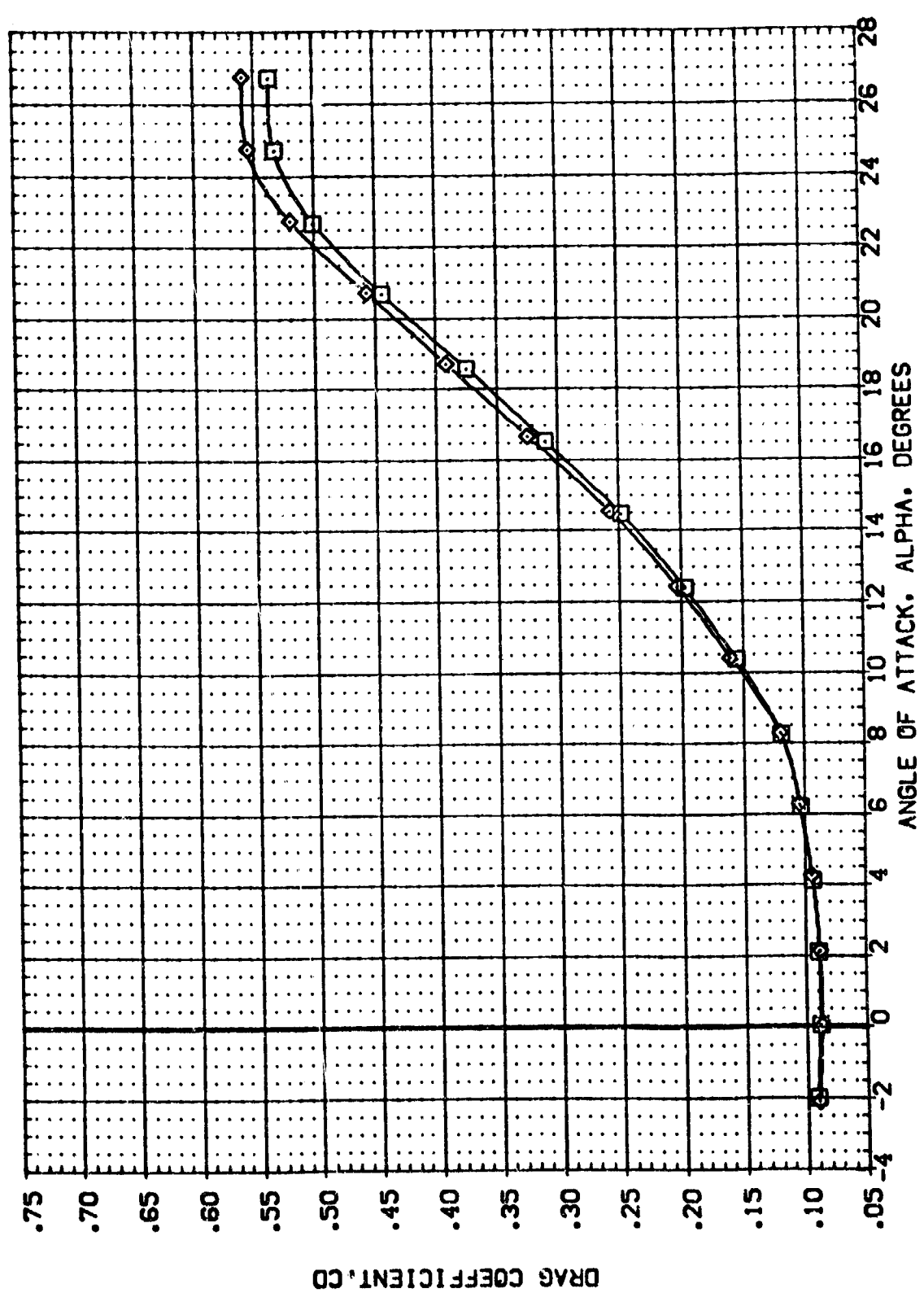


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60

DATA SET SYMBOL										CONFIGURATION DESCRIPTION										REFERENCE INFORMATION									
[187010]										DATA NOT AVAILABLE										SREF 2630.0000 SQ.FT.									
[187004]										A-ES 55-705 OA43 B10 CS D7 PG F4 V87E18 VS95										LREF 474.8000 IN.									
[187012]										A-ES 55-705 OA43 B10 CS D7 PG F4 V87E18 VS95										BREF 936.6800 IN.									
																				XTRP 1076.4800 IN.									
																				YTRP .0000 IN.									
																				ZTRP .0000 IN.									
																				SCALE .0150									

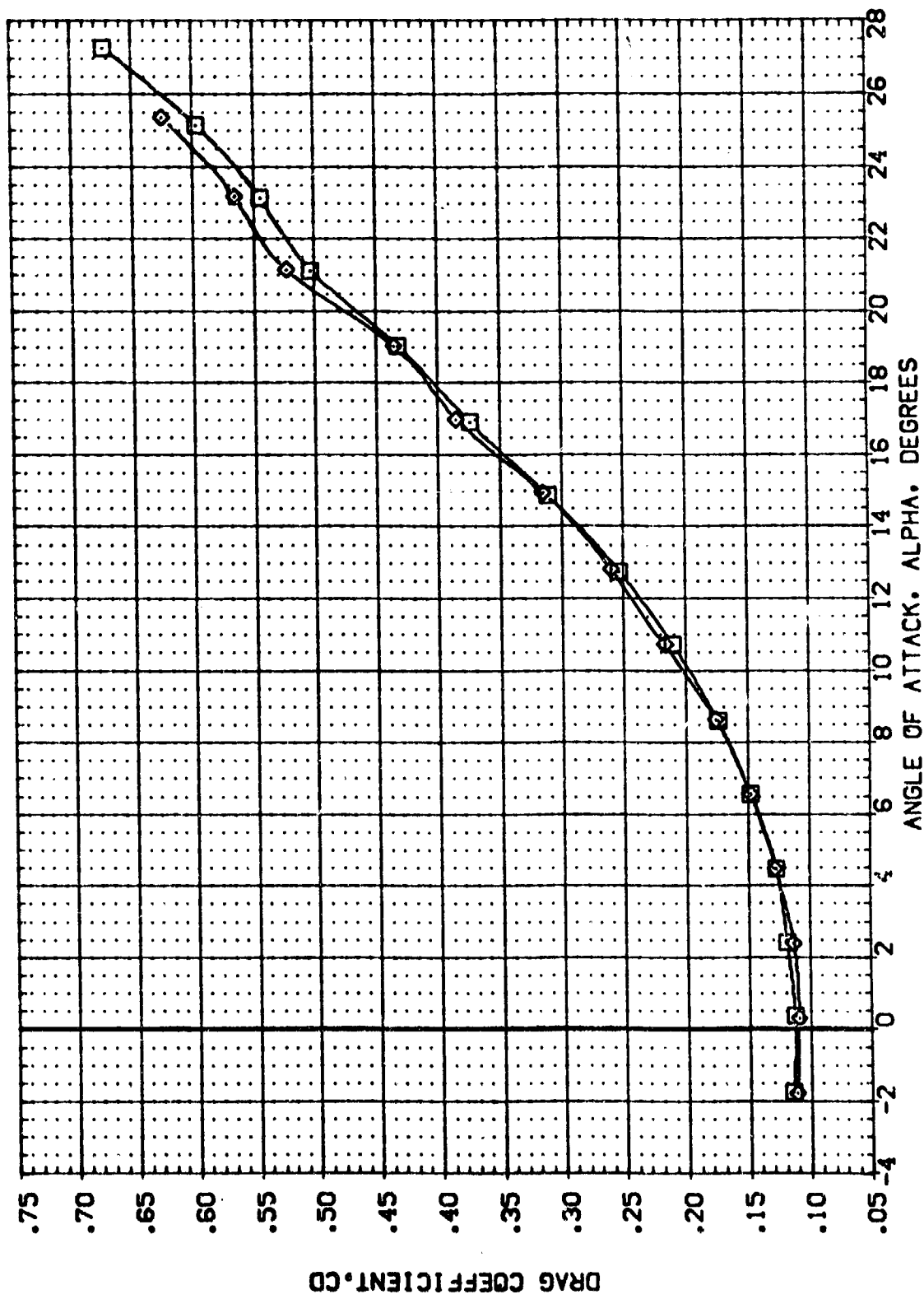


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		FLUDDER		REFEREN		INFORMATION	
[RETO10]		DATA NOT AVAILABLE										SREF	2652	0000	SQ.FT.
[RETOA]		AVES 66-706 OA43 B10 CS D7 P3 F4 V87E18 V595		-14.200	.000	.000	54.500	.000				LREF	474.8000	IN.	
[RETO12]		AVES 66-706 OA43 B10 CS D7 P3 F4 V87E18 V595		.000	.000	.000	54.500	.000				BREF	936.6800	IN.	
												XREF	1076.4800	IN.	
												YREF	400.0000	IN.	
												ZREF	400.0000	IN.	
												SCALE	.0150	SCALE	

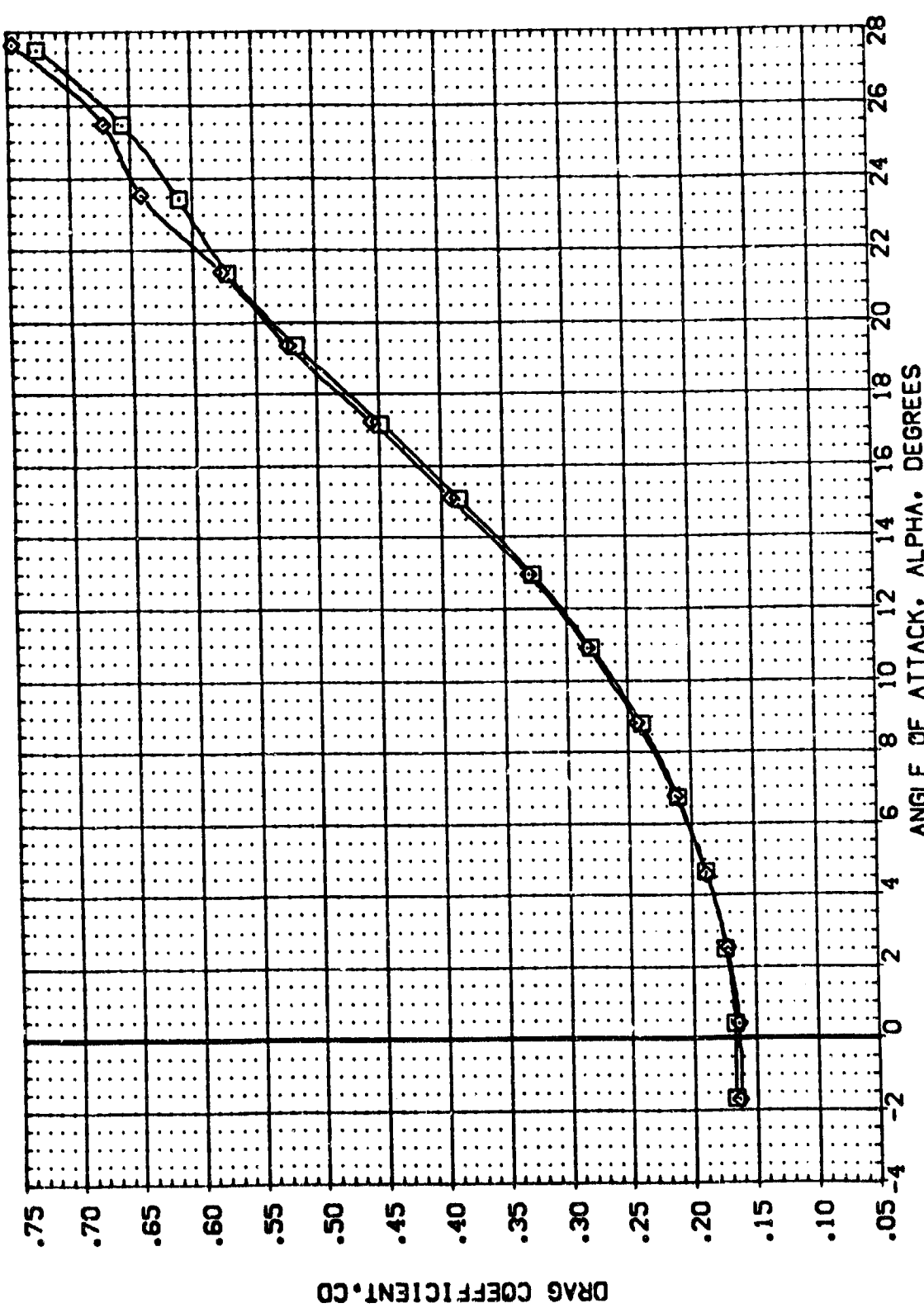


FIG. 11 BODY FLAP EFFECT
(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[RETO10]	AVES 66-706 0A13 310 CS 07 H3	-14.200	.000	54.900	.000	SREF 2690.0000
[RETO04]	AVES 66-706 0A13 810 CS 07 H3	.000	.000	54.900	.000	LREF 474.8000
[RETO12]	AVES 66-706 0A13 810 CS 07 H3	.000	.000	54.900	.000	BREF 936.6800
						VMREF 1076.4800
						VMREF .0000
						ZMREF 400.0000
						SCALE .0150

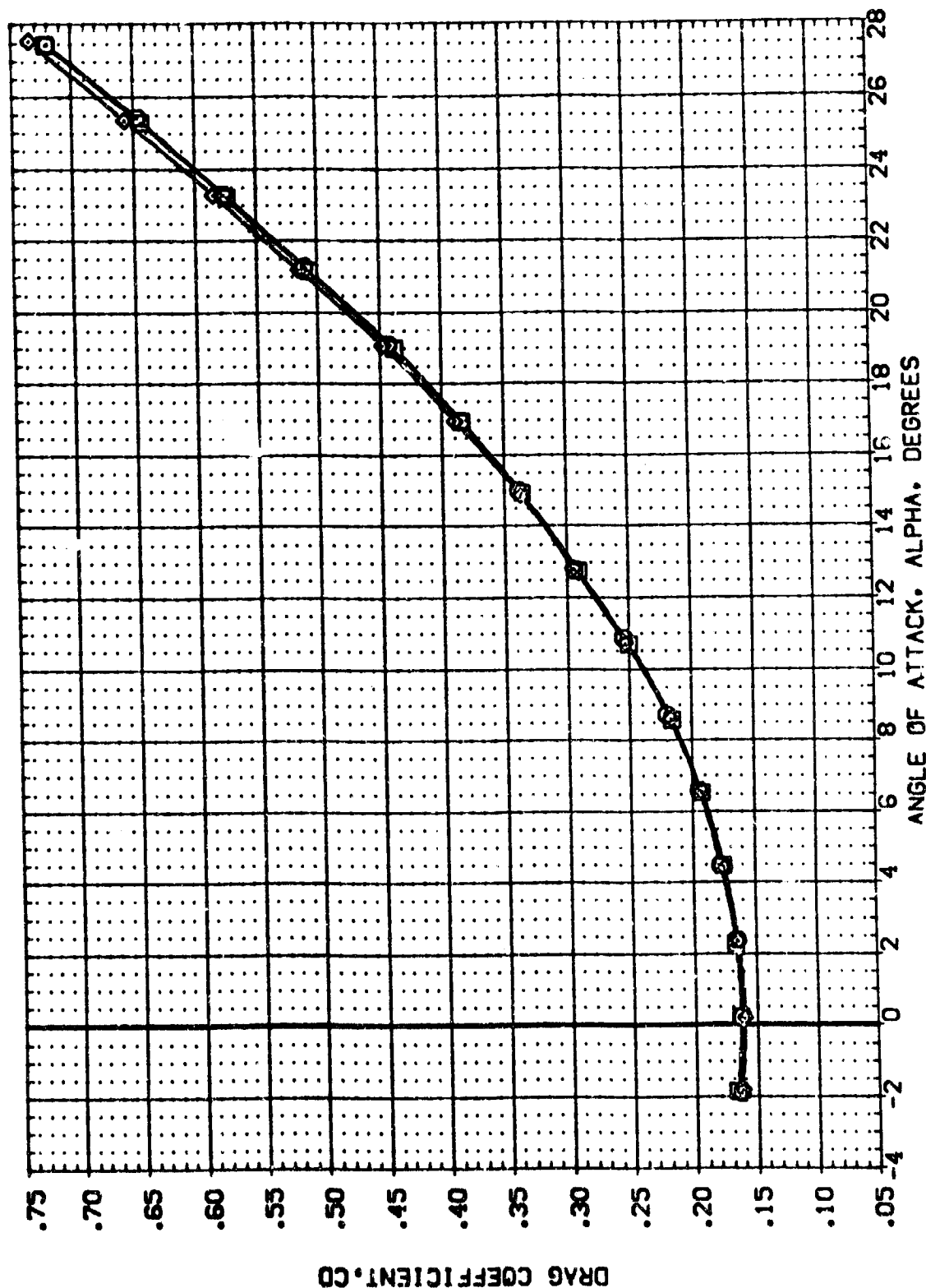


FIG. 11 BODY FLAP EFFECT

(CD)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT010)	AMES 66-706 CA43 B10 CS D7 M3	-14.200	.000	S4.500	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AMES 66-706 CA43 B10 CS D7 M3	.000	.000	S4.500	.000	LREF 474.8000 IN.
(RBT012)	AMES 66-706 CA43 B10 CS D7 M3	.000	.000	S4.500	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

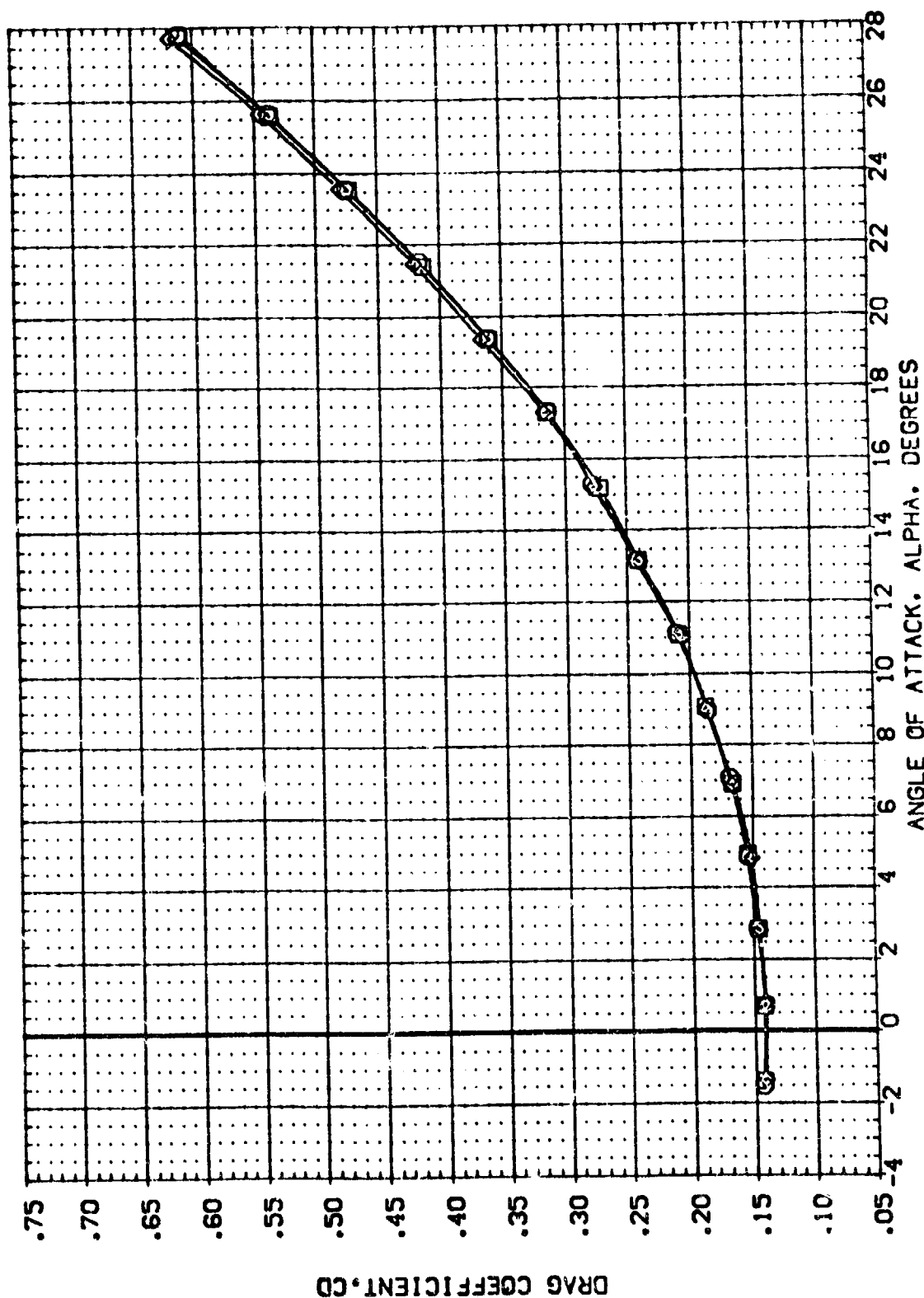


FIG. 11 BODY FLAP EFFECT

(EJ)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFUP		ELEVON		SPOBRK		RUDDER		REFERENCE INFORMATION	
[R9T0:0]	DATA NOT AVAILABLE	CS D7	M3 F4	V87E18	V50S	.000	.000	S4.900	.000	SREF	2690.0000	50.17.	
[R9T004]	APES 66-705 CA43 B10	CS D7	M3 F4	V87E18	V50S	-14.200	.000	S4.900	.000	LREF	474.8000	IN.	
[R9T0:12]	APES 66-706 CA43 B10	CS D7	M3 F4	V87E18	V50S	.000	.000	S4.900	.000	BREF	936.6800	IN.	
										XREF	1076.4800	IN.	
										YREF	.0000	IN.	
										ZREF	100.0000	IN.	
										SCALE	.0150	SCALE	

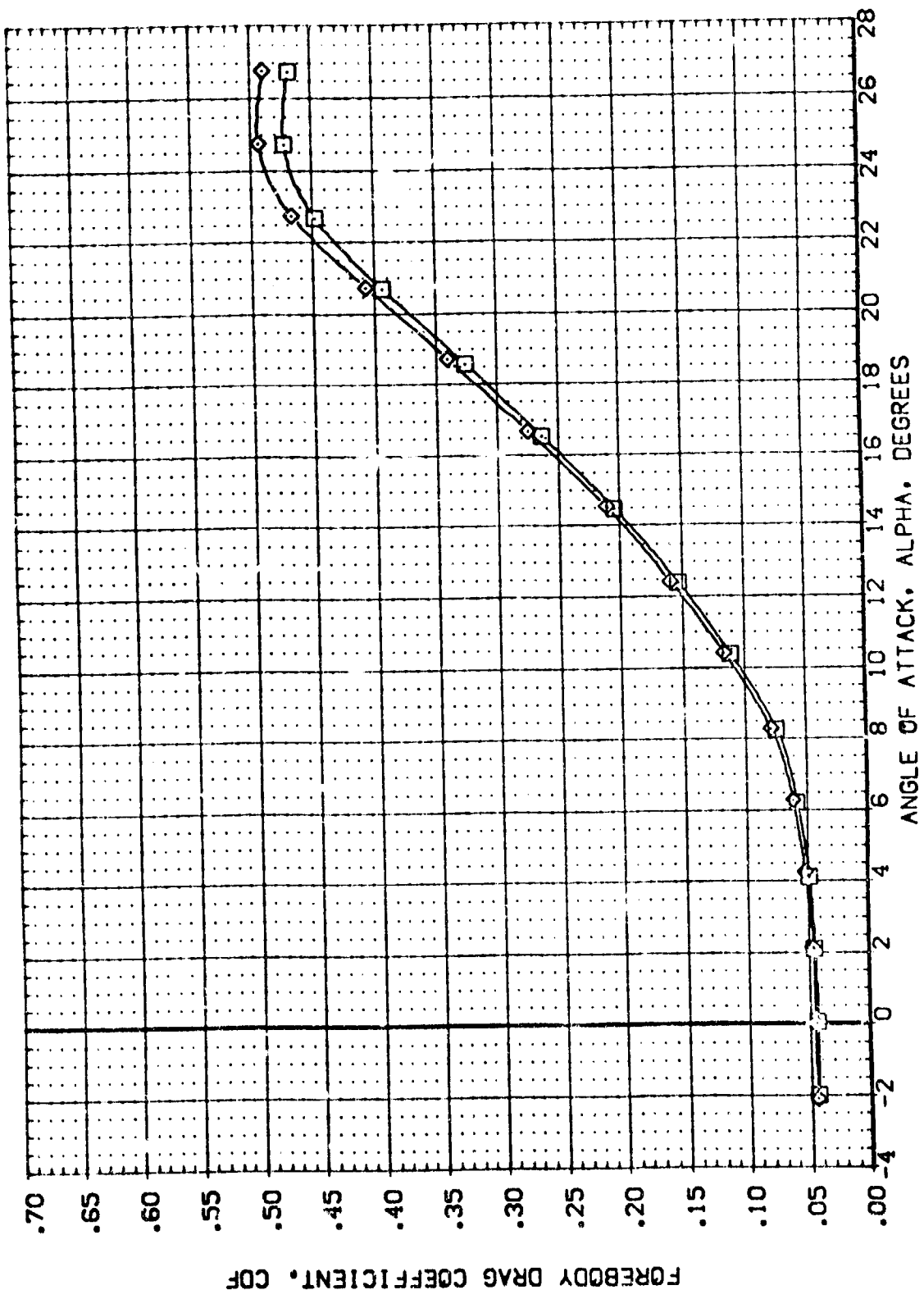


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60

DATA SET SYMBOL: (R8T010) (R8T02) (R8T03) (R8T04) (R8T05) (R8T06) (R8T07) (R8T08) (R8T09) (R8T10) (R8T11) (R8T12) (R8T13) (R8T14) (R8T15) (R8T16) (R8T17) (R8T18) (R8T19) (R8T20) (R8T21) (R8T22) (R8T23) (R8T24) (R8T25) (R8T26) (R8T27) (R8T28) (R8T29) (R8T30) (R8T31) (R8T32) (R8T33) (R8T34) (R8T35) (R8T36) (R8T37) (R8T38) (R8T39) (R8T40) (R8T41) (R8T42) (R8T43) (R8T44) (R8T45) (R8T46) (R8T47) (R8T48) (R8T49) (R8T50) (R8T51) (R8T52) (R8T53) (R8T54) (R8T55) (R8T56) (R8T57) (R8T58) (R8T59) (R8T60) (R8T61) (R8T62) (R8T63) (R8T64) (R8T65) (R8T66) (R8T67) (R8T68) (R8T69) (R8T70) (R8T71) (R8T72) (R8T73) (R8T74) (R8T75) (R8T76) (R8T77) (R8T78) (R8T79) (R8T80) (R8T81) (R8T82) (R8T83) (R8T84) (R8T85) (R8T86) (R8T87) (R8T88) (R8T89) (R8T90) (R8T91) (R8T92) (R8T93) (R8T94) (R8T95) (R8T96) (R8T97) (R8T98) (R8T99) (R8T100)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 174.8000 IN. BREF 936.6800 IN. YREF 1376.4800 IN. ZREF 400.0000 IN. SCALE .0150

BOFPLP ELEVON SPDRBK RUDDER

-14.200 .000 54.900 .000

.000 .000 54.900 .000

.000 .000 54.900 .000

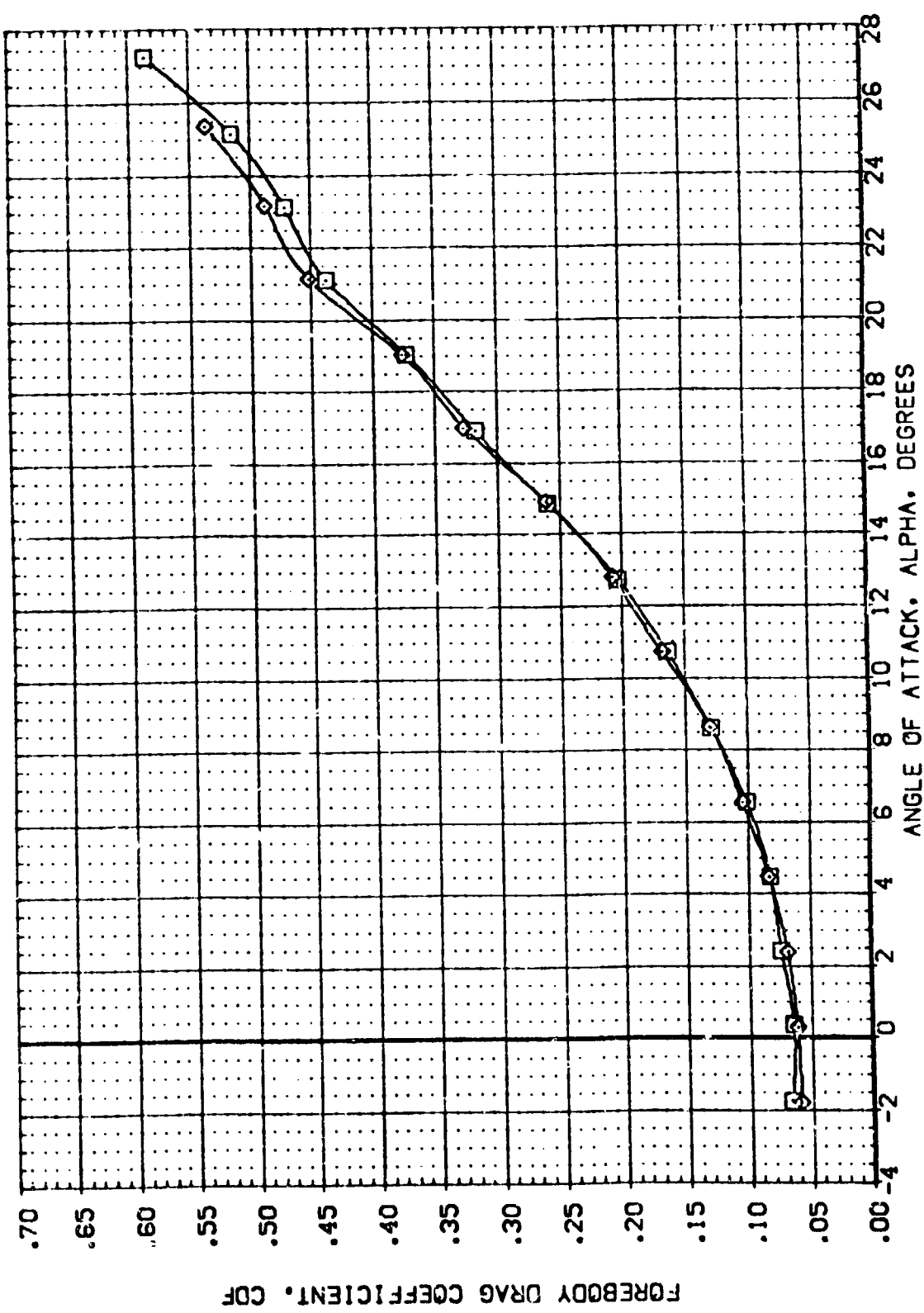


FIG. 11 BODY FLAP EFFECT

(9)MACH : .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SFOBRK	RUDDER	REFERENCE INFORMATION
(RBT010)	AVES 66-706 0A43 B10 CS D7 M3	-14.200	.000	54.900	.000	SREF 2690.0000 50.FT.
(RBT004)	AVES 66-706 0A43 B10 CS D7 M3 F4	.000	.000	54.900	.000	LREF 474.8000 IN.
(RBT012)	AVES 66-706 0A43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF 936.6800 IN.
						X-RRP 1076.4800 IN.
						Y-RRP .0000 IN.
						Z-RRP 400.0000 IN.
						SCALE .0150

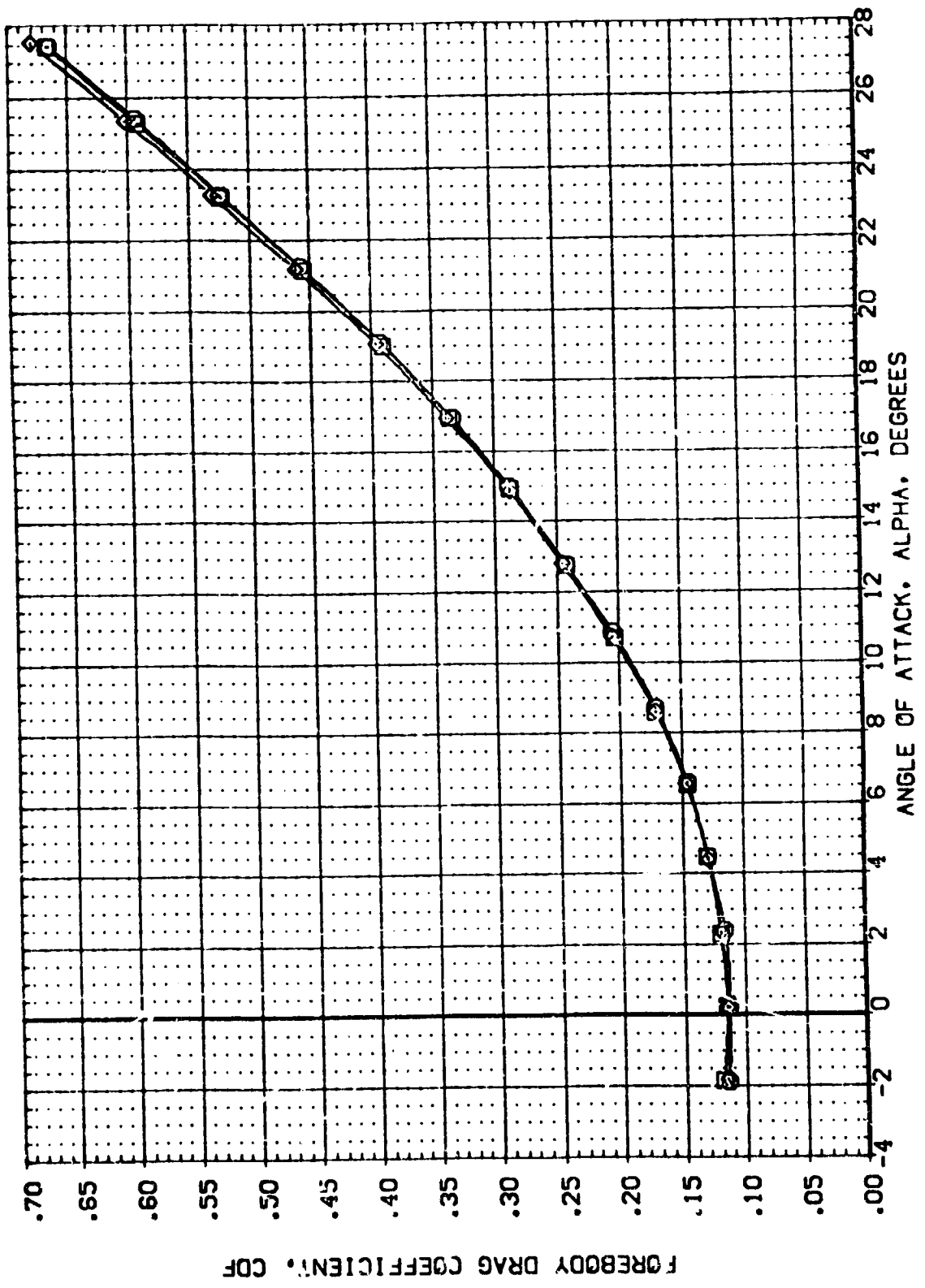


FIG. 11 BODY FLAP EFFECT

(D)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(R81010)	AVES 66-706	CA43 B10 CS 07 H3	V87E18 V505	SREF	2690.0000
(R81004)	AVES 66-706	CA43 B10 CS 07 H3	V87E18 V505	LREF	474.8000
(R81022)	AVES 66-706	CA43 B10 CS 07 H3	V87E18 V505	BREF	533.8800
				XREF	107.4800
				YREF	100.0000
				ZREF	100.0000
				SCALE	.0150

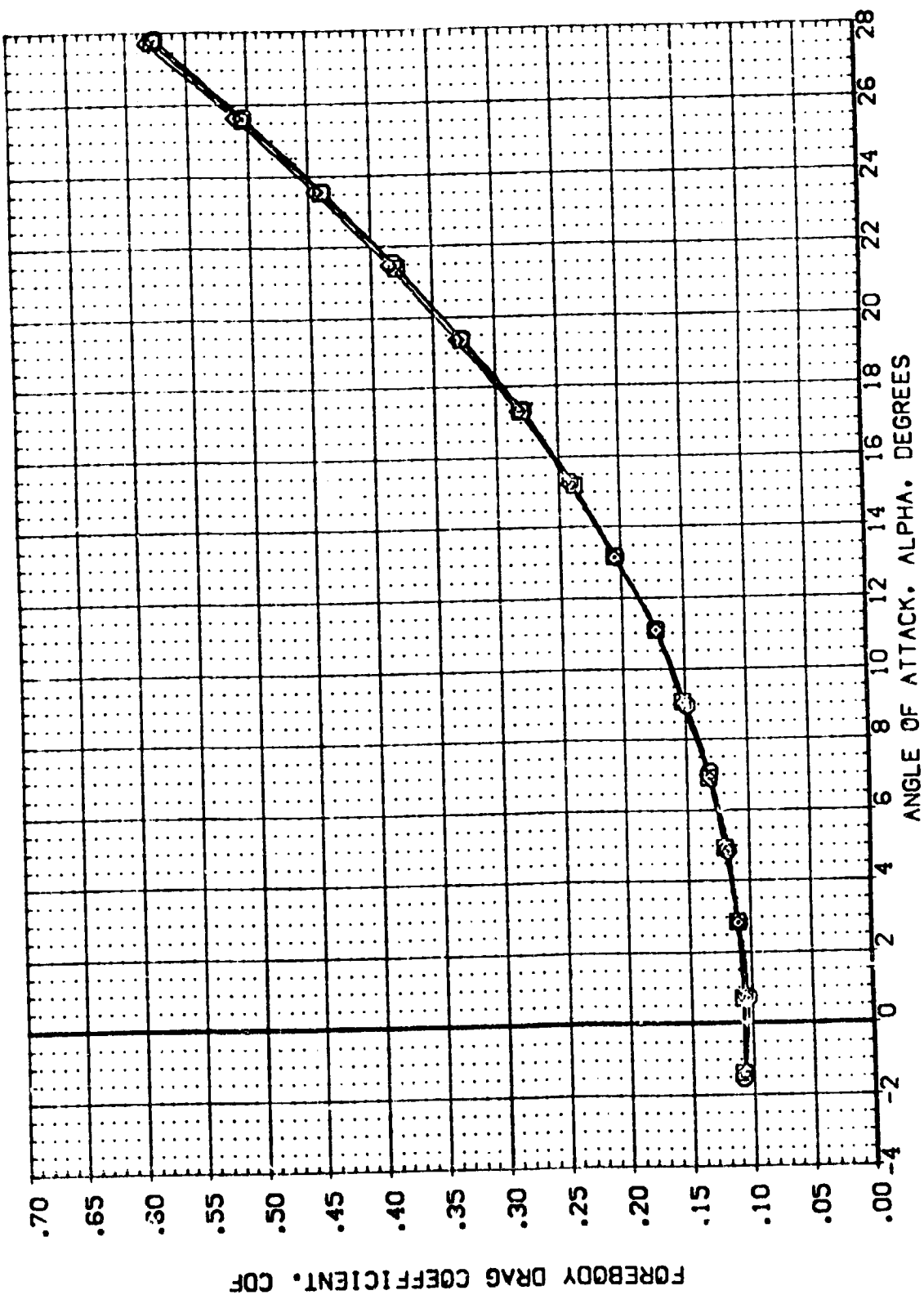


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMBOL: [REBTD10] [REBTD04] [REBTD12]

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE

APES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

APES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BODFLP: -14.200

ELEVON: .000

SPOBRK: S4.500

RUDDER: .000

REFERENCE INFORMATION:

SREF: 2690.0000 SQ.FT.

LREF: 474.8000 IN.

BREF: 936.5800 IN.

XPRP: 1076.4800 IN.

YPRP: 400.0000 IN.

ZPRP: 400.0000 IN.

SCALE: .0150

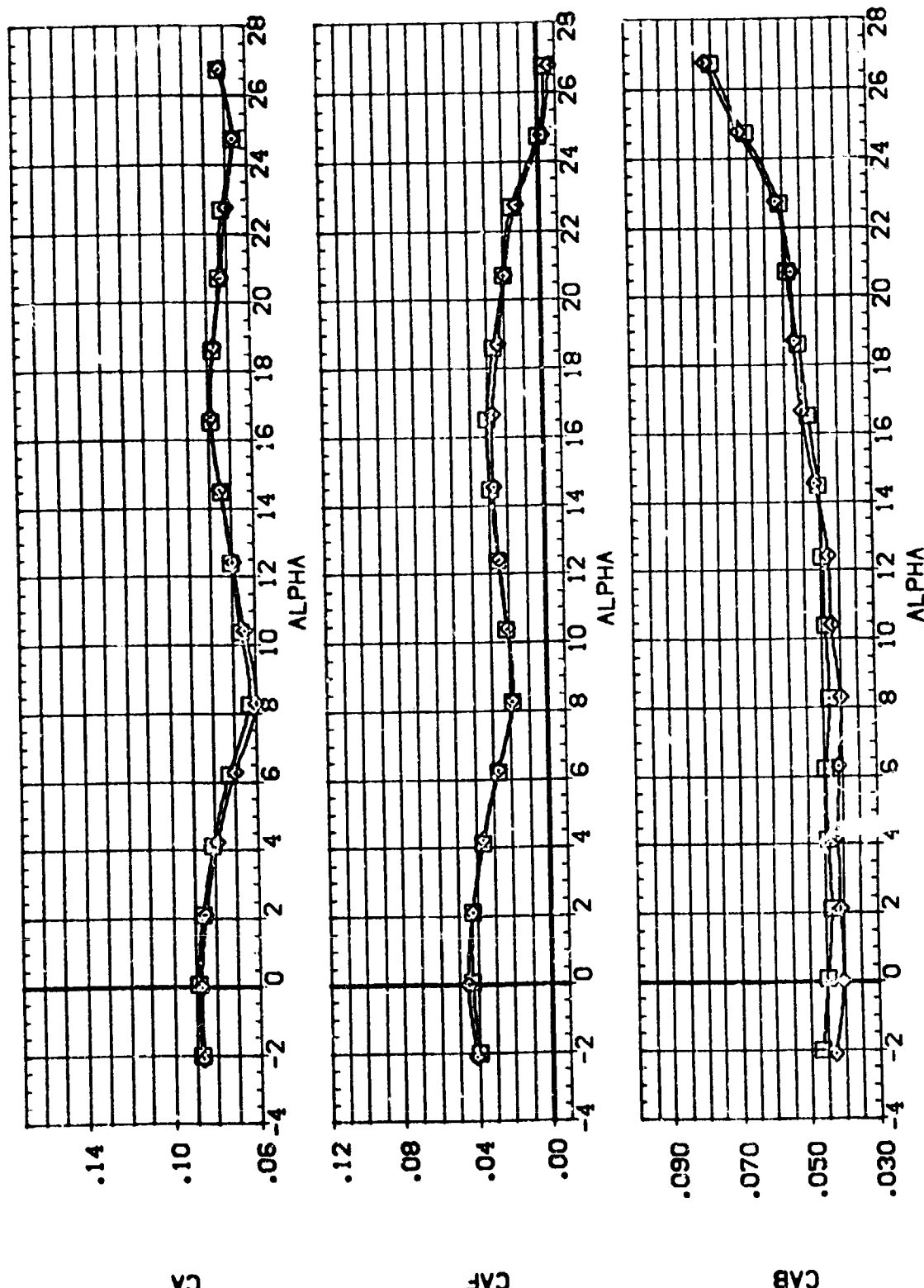


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRN	RUDER	REFERENCE INFORMATION
(RBT010)	DATA NOT AVAILABLE					SREF 2690.0000 SQ.FT.
(RBT004)	AVES 65-705 CA43 B10 CS 07 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RBT012)	AVES 65-705 DA43 B10 CS 07 M3 F4 V87E18 VSRS	.000	.000	54.900	.000	BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

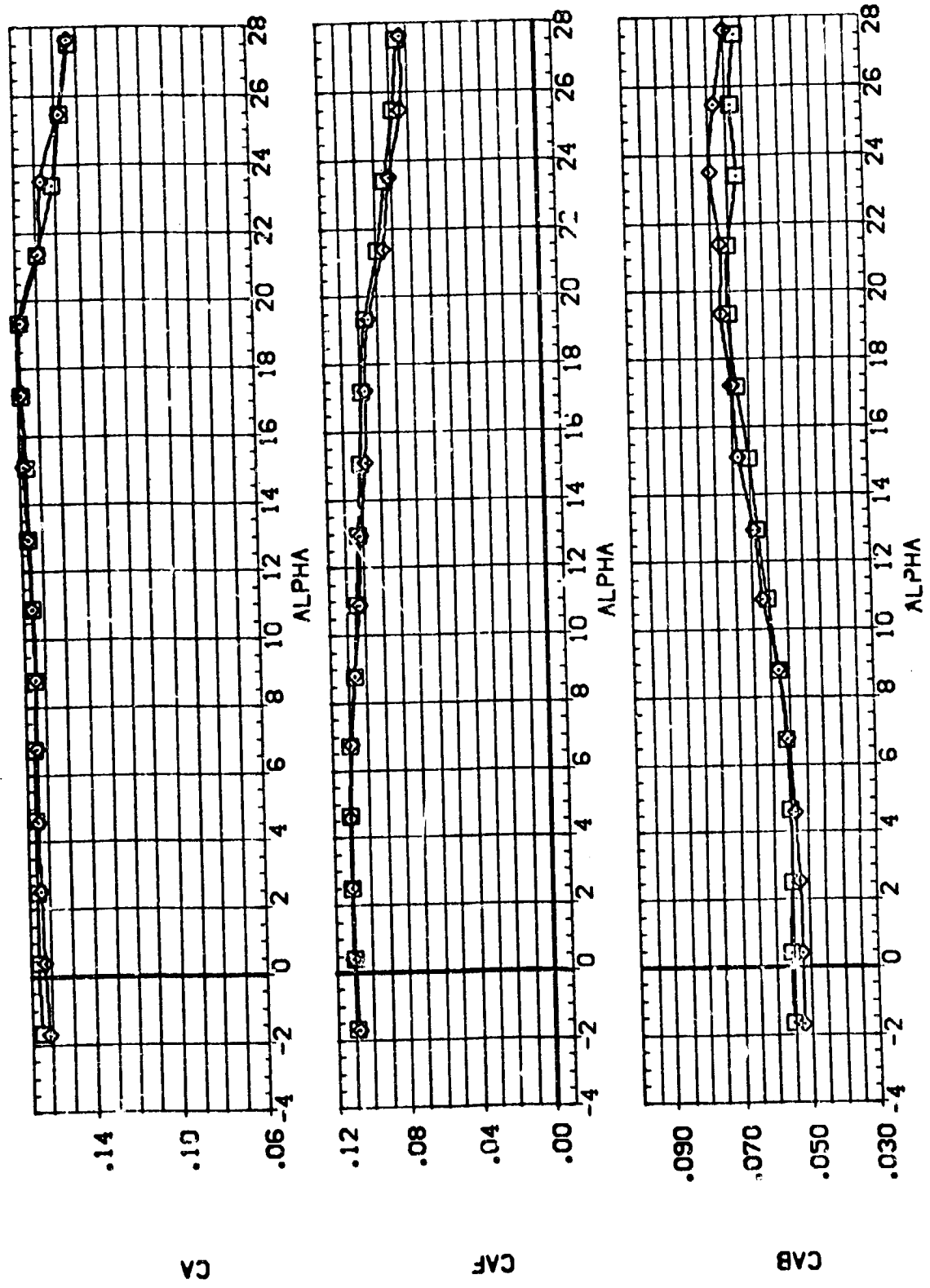
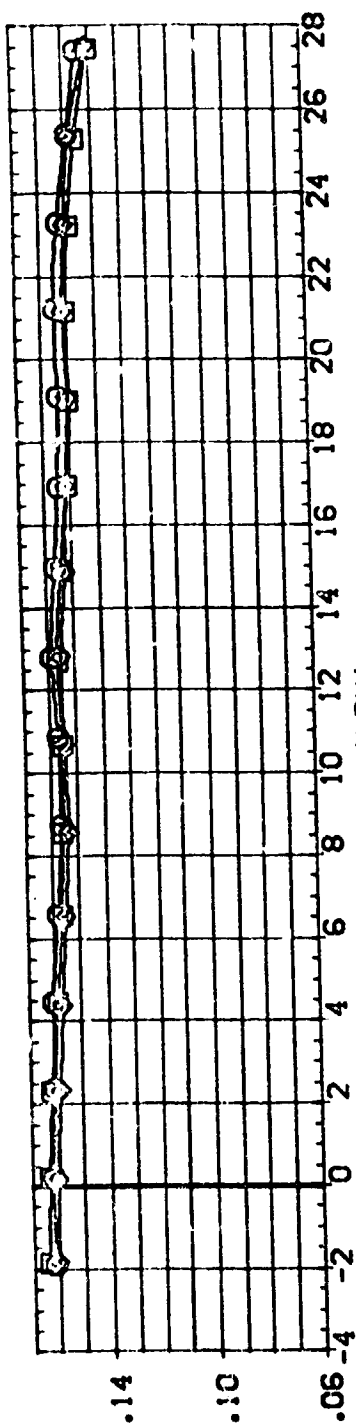


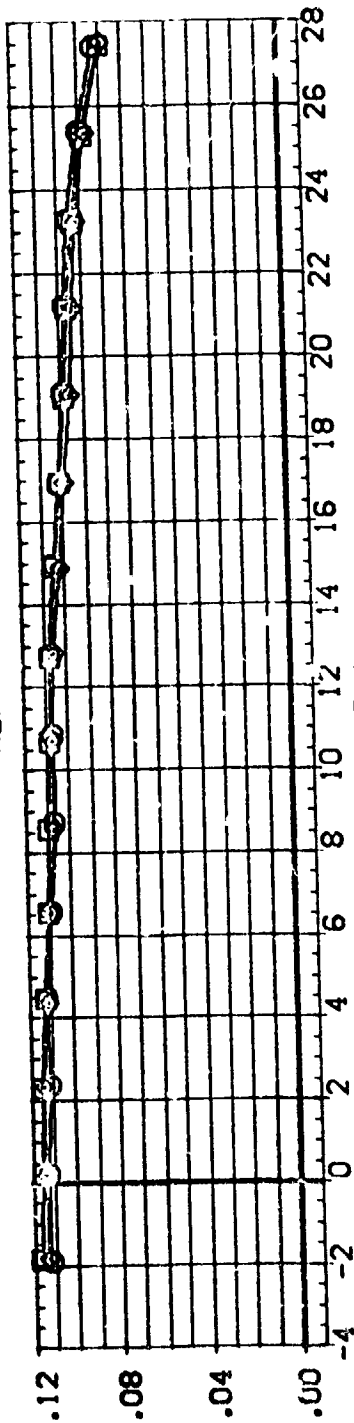
FIG. 11 BODY FLAP EFFECT
(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	
(B)TC(1)	AES 66-706 DA43 B10 CS D7 M3 V87E18 VSRS	-14.200	.000	54.900	.000	SREF	2690.0000 SQ.FT.
(B)TC(4)	AES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	54.900	.000	LREF	474.8000 IN.
(B)TC(2)	AES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	54.900	.000	BREF	936.6800 IN.
						XREF	1076.4800 IN.
						YREF	.0000 IN.
						ZREF	.0000 IN.
						SCALE	.0150



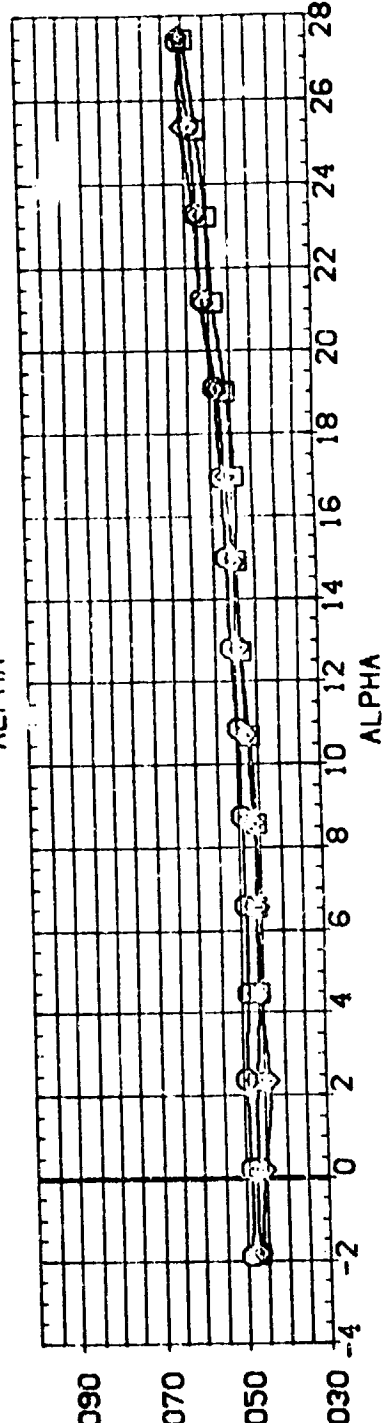
CL

ALPHA



CD

ALPHA



CM

ALPHA

FIG. 11 BODY FLAP EFFECT

(O)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(RBT010)	AVES 66-706 DA43 B10 CS U7 M3 V87E18 VSRS		.000	54.900	.000	SREF 2690.0000 SQ.FT.
(RBT004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(RBT012)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	54.900	.000	BREF 936.6800 IN.
						YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

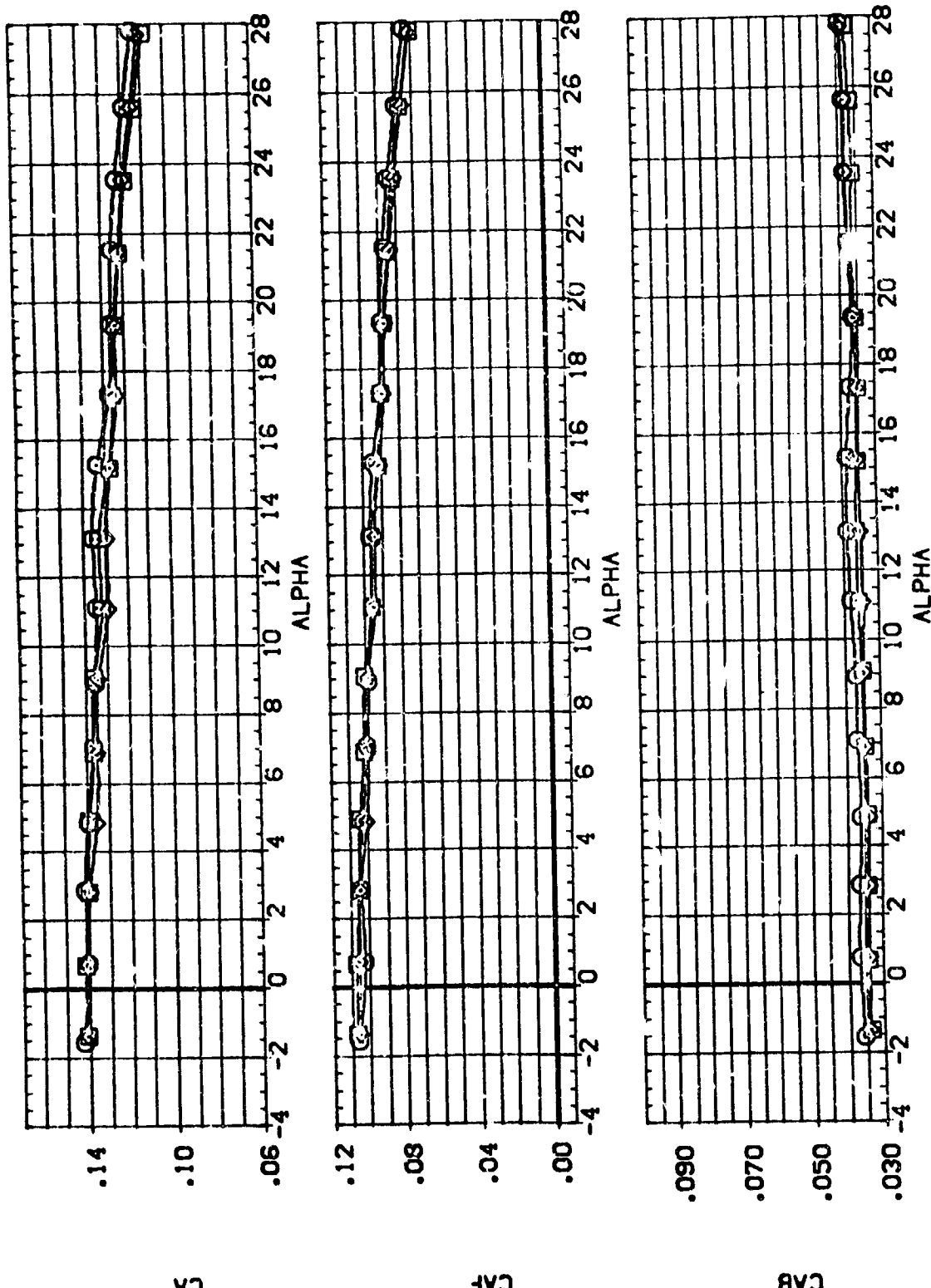


FIG. 11 BODY FLAP EFFECT
(E)MACH = 2.00

DATA SET SYMBOL: \square CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 (R87010) AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VS96
 (R87004) AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VS96
 (R87012) AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VS96

BOOF LP: -14.200
 ELEVON: .000
 SPDBRX: 54.900
 RJDDLR: .000

REFERENCE INFORMATION: SQ.FT.
 SREF: 2690.0000
 LREF: 474.8000
 BREF: 936.6800
 XREF: 1076.1800
 YREF: .0000
 ZREF: 400.0000
 SCALE: .0150

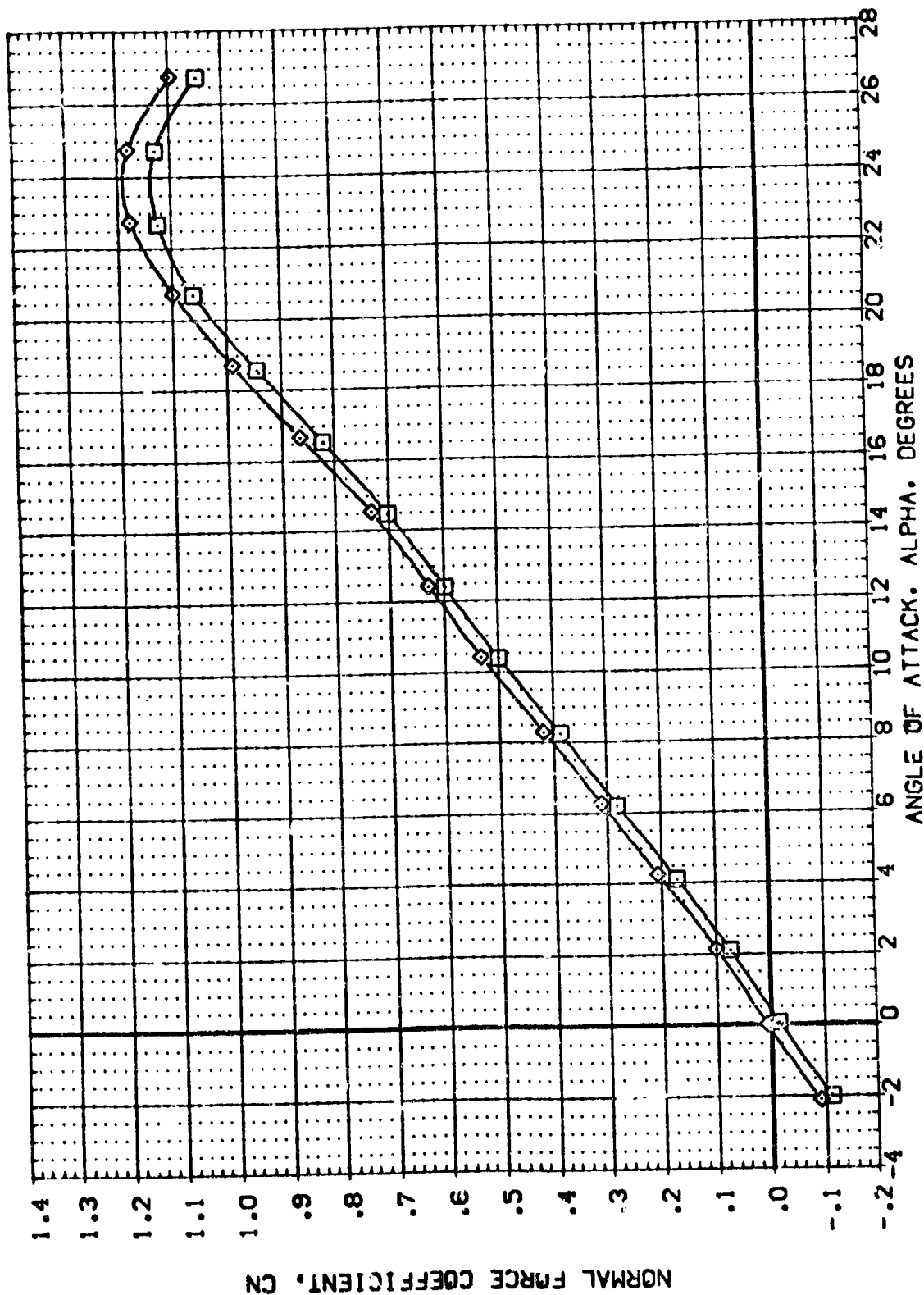


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60



DATA SET SYMB.	CONF	IGRATION	DESCRIPTION	BOOFLP	ELEVEN	SP08RK	RUDDER	REFERENCE INFORMATION
(R8T010)	DATA NOT AVAILABLE			-14.200	.000	54.900	.000	SREF 2530.0000
(R8T004)	APES (S-70S	DA13	B10 CS 07	.000	.000	54.900	.000	LREF 474.8000
(R8T012)	APES (S-70S	DA13	B10 CS 07	.000	.000	54.900	.000	BREF 936.6800
								XMRP 1076.4800
								YMRP .0000
								ZMRP .0000
								SCALE .0150

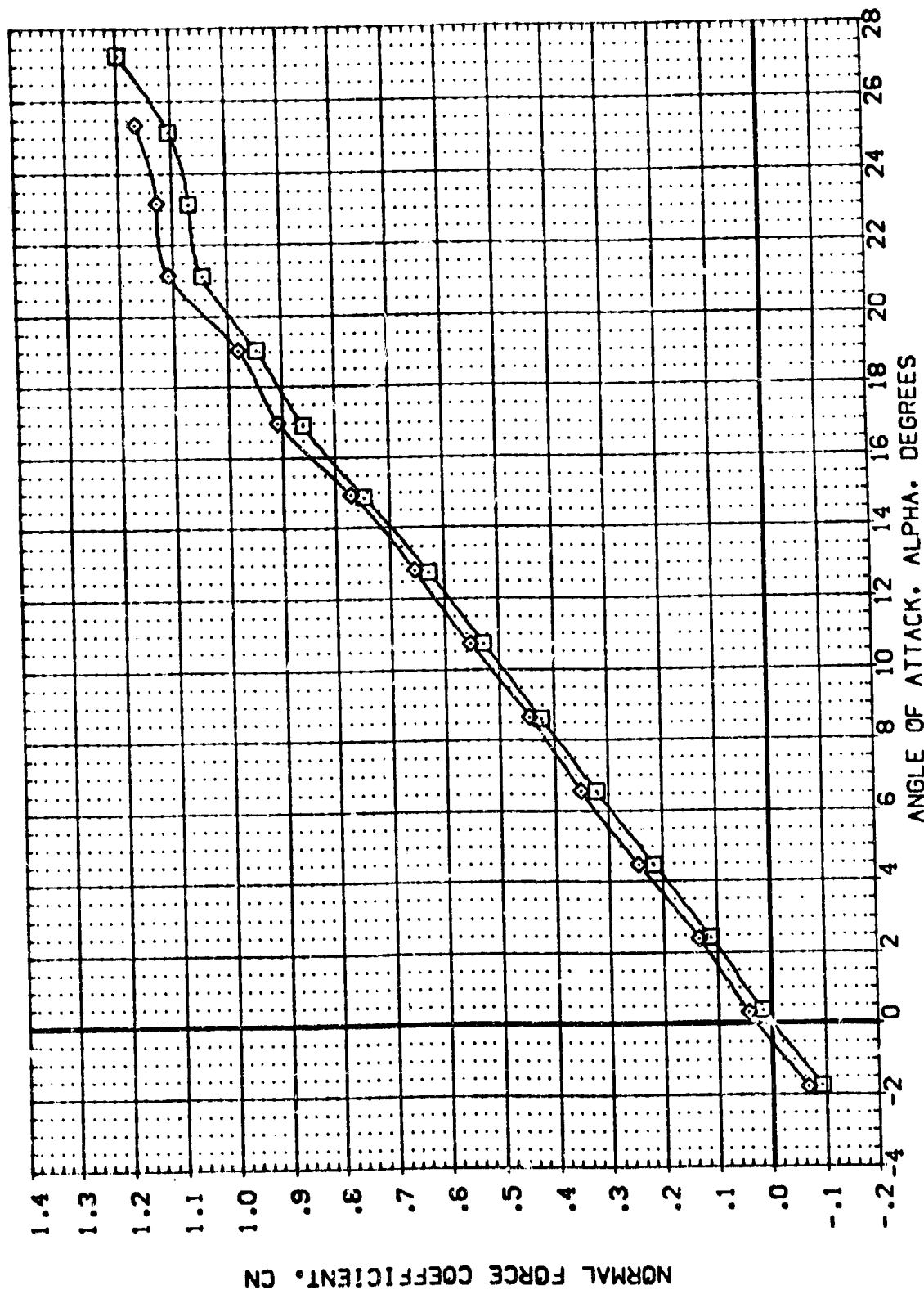


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOONK	RUDDER	REFERENCE INFORMATION	
(RPTC10)	DATA NOT AVAILABLE					SREF	2690.0000
(RPTC04)	AES 66-706 CA13 B10 CS 07 H3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	LREF	474.8000
(RPTC12)	AES 66-706 CA13 B10 CS 07 H3 F4 V87E18 V5R5	.000	.000	54.900	.000	BREF	936.6970
						XPRP	1076.4800
						YPRP	.0000
						ZPRP	400.0000
						SCALE	.0150

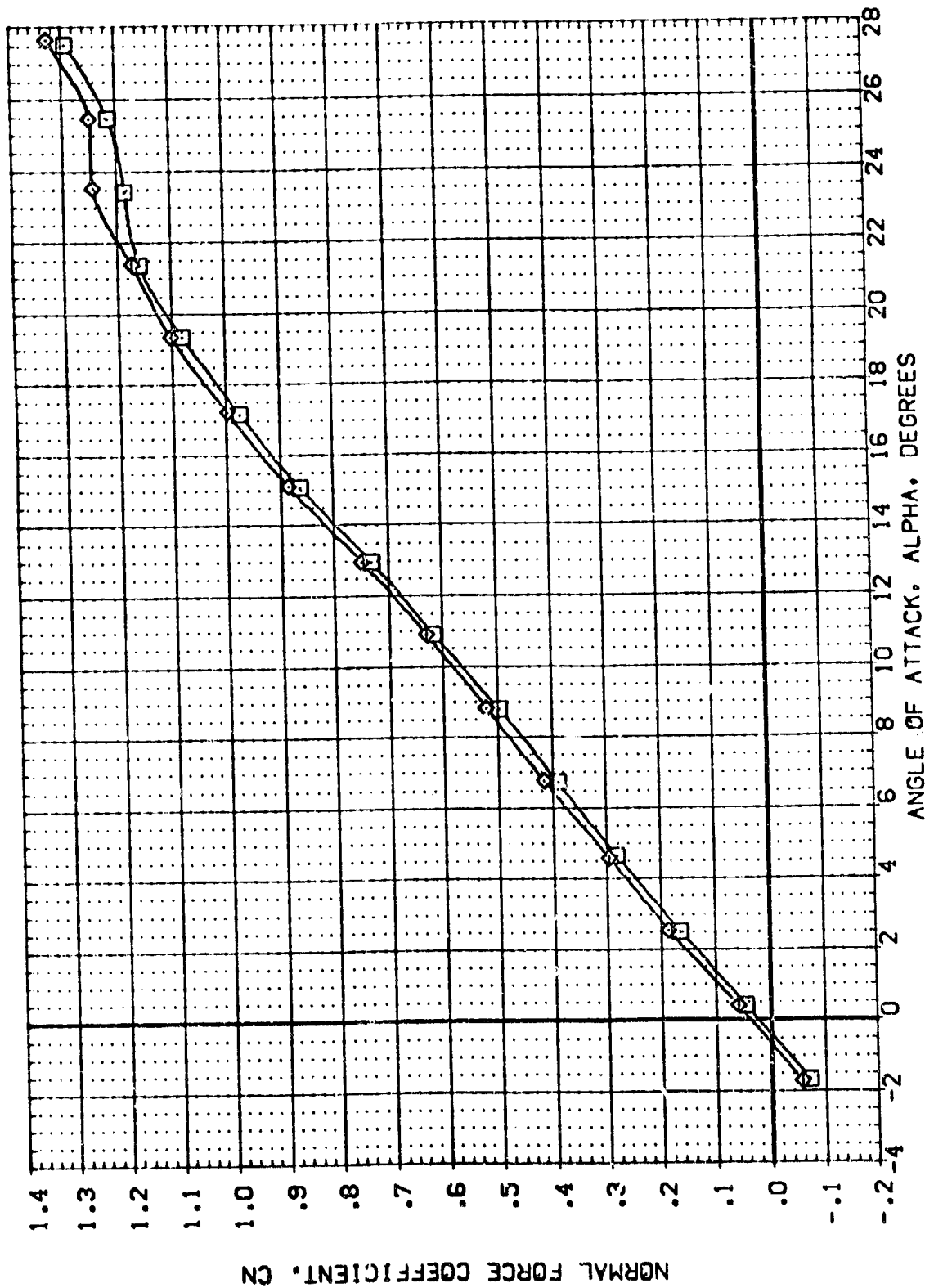


FIG. 11 BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	FLUDER	REFERENCE INFORMATION	
(RBT010)	AVES 66-70S DA43 B10 CS D7 M3	-14.200	.000	54.900	.000	SREF	2690.0000
(RBT004)	AVES 66-70S DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	LREF	474.8000
(RBT012)	AVES 66-70S DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF	936.6900
						XMRP	1076.4800
						YMRP	.0000
						ZMRP	400.0000
						SCALE	.0150
							SO.FT.
							IN.
							IN.
							IN.
							IN.
							IN.

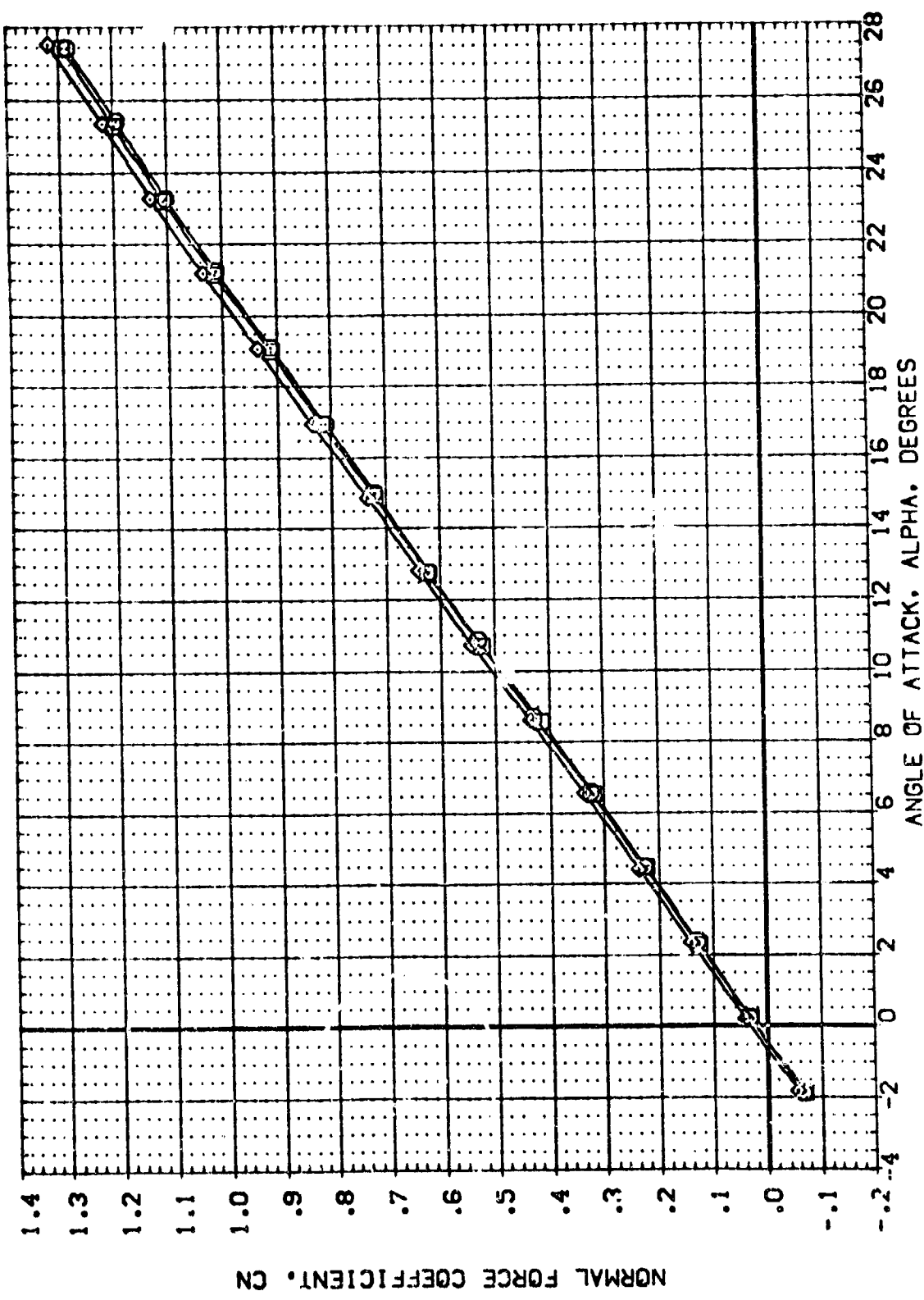


FIG. 11 BODY FLAP EFFECT

(UJ MACH = 1.50)

C-5

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R9-D10)	AVES 66-706 DA43 B10 C5 D7 M3		.000	54.900	.000	SREF 2690.0000
(R9-D04)	AVES 66-706 DA43 B10 C5 D7 M3	-14.200	.000	54.900	.000	UREF 474.8000
(R9-D12)	AVES 66-706 DA43 B10 C5 D7 M3	.000	.000	54.900	.000	BREF 936.6800
						YMRP 1076.4800
						ZMRP .0000
						SCALE 400.0000
						SCALE 3150

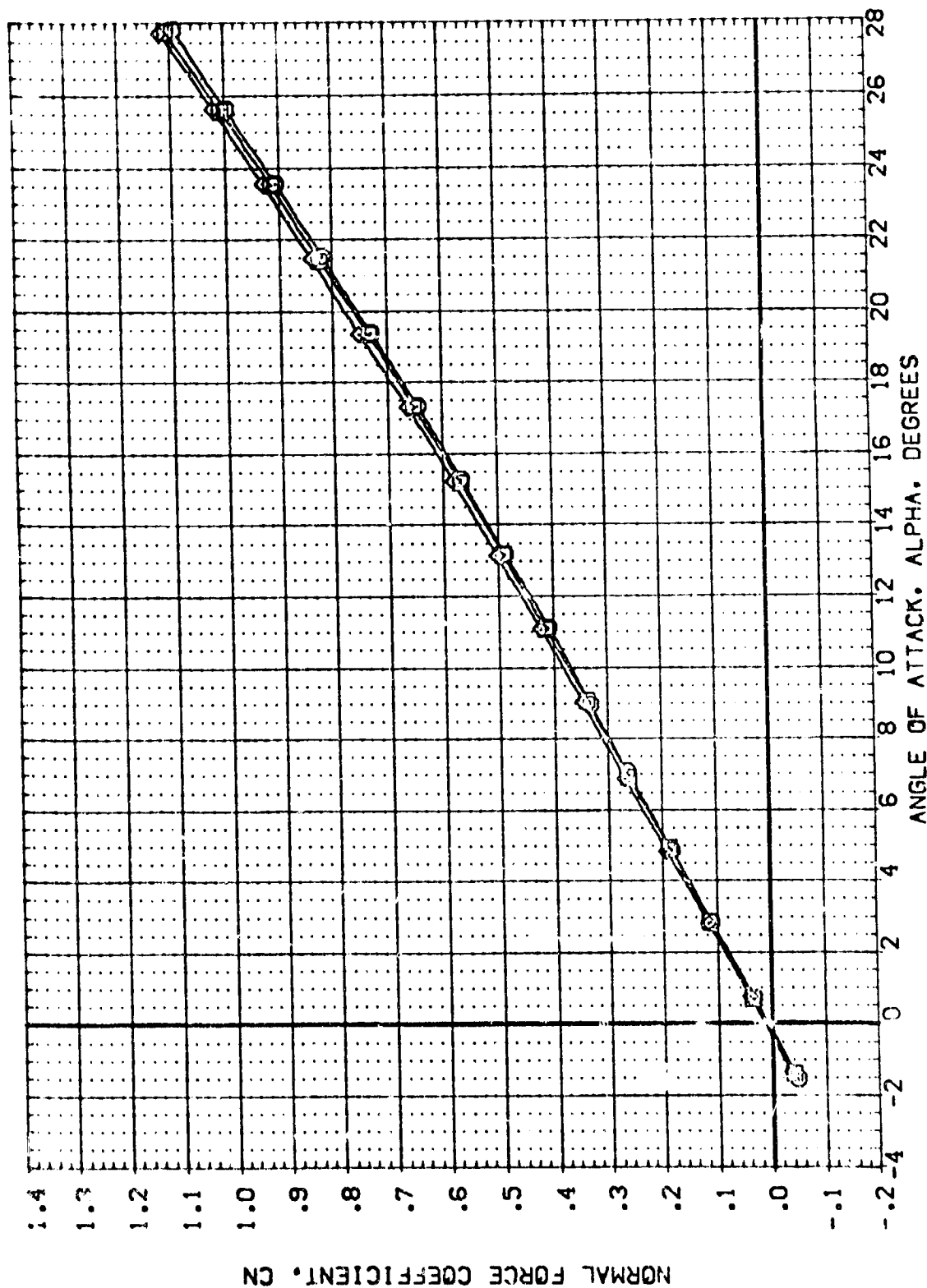


FIG. 11 BODY FLAP EFFECT

(C)MACH = 2.00

DATA SET SYMBOL: (RST010) (RST004) (RST012)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 ARES 65-705 0A13 B10 CS D7 H3 F4 V87E18 V5K5
 ARES 65-705 0A13 B10 CS D7 H3 F4 V87E18 V5K5

BOOFLP: -14.200
 ELEVON: .000
 SPOBRK - RUDDER: .000
 REFERENCE INFORMATION: SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XREF 1076.4800 IN.
 YREF .0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150

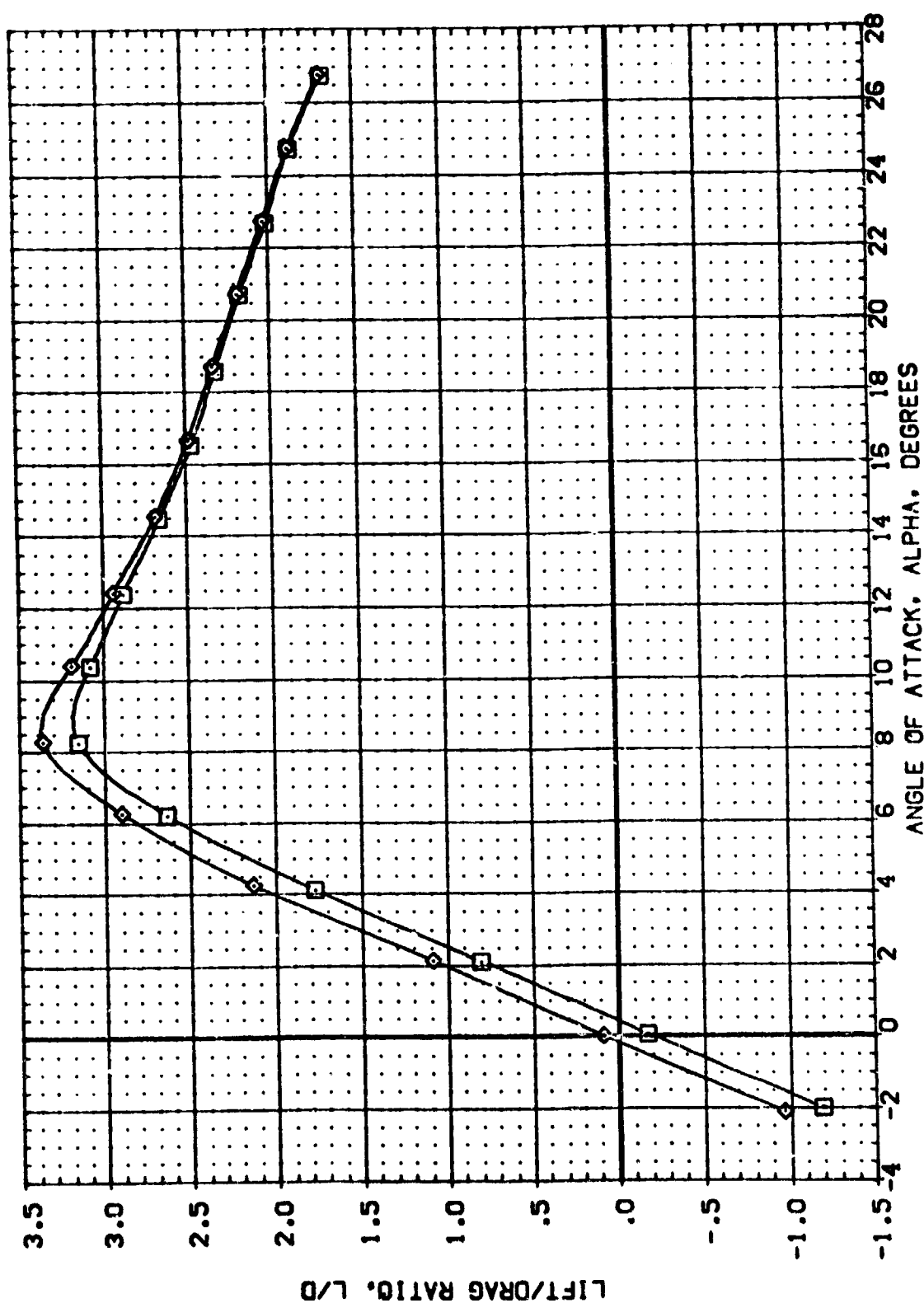


FIG. 11 BODY FLAP EFFECT

(A) MACH = .60

DATA SET SYMBOL: (RBT010) (RBT004) (RBT012)

CONFIGURATION: DESCRIPTION
 DATA NOT AVAILABLE
 AYES 65-705 0A13 B10 CS D7 M3 F4 W87E18 VSWS
 AYES 65-705 0A13 B10 CS D7 M3 F4 W87E18 VSWS

BOOF LP: -14.200
 ELEVON: .000
 SPORWK: 54.500
 RUDDER: .000

REFERENCE INFORMATION
 SREF: 2630.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XPRP: 1076.4800 IN.
 YPRP: 0.0000 IN.
 ZPRP: 400.0000 IN.
 SCALE: .0150

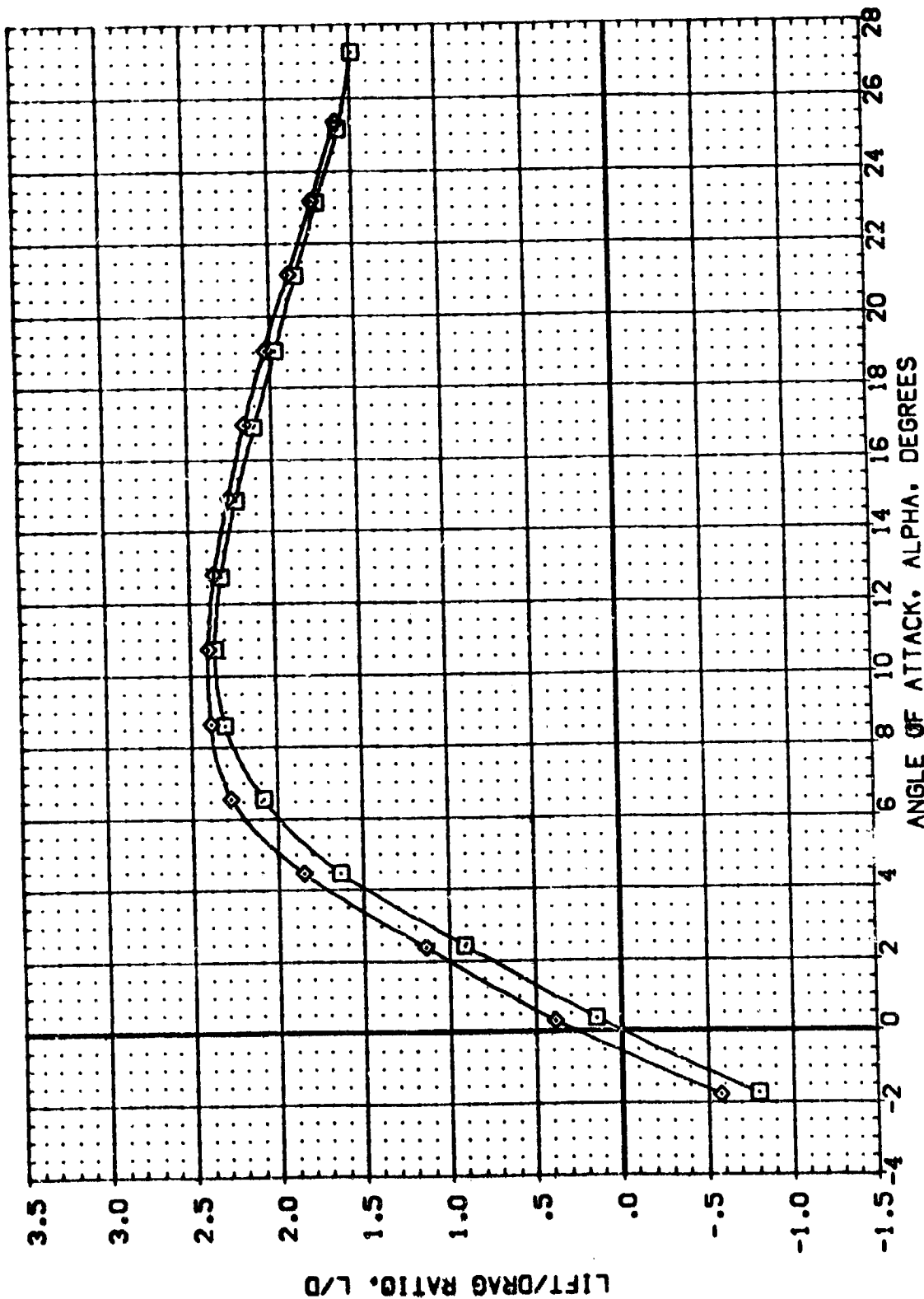


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	FLUDER	REFERENCE INFORMATION	
(RB7010)	DATA NOT AVAILABLE					SREF	2680.0000 50.FT.
(RB7004)	AMES 65-706 DA43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	.000	54.500	.000	LMREF	474.8000 IN.
(RB7012)	AMES 65-706 DA43 B10 CS D7 M3 F4 V87E18 V5K5	.000	.000	54.500	.000	BRREF	938.6000 IN.
						YPRP	1076.1800 IN.
						YPRP	400.0000 IN.
						SCALE	.0150 SCALE

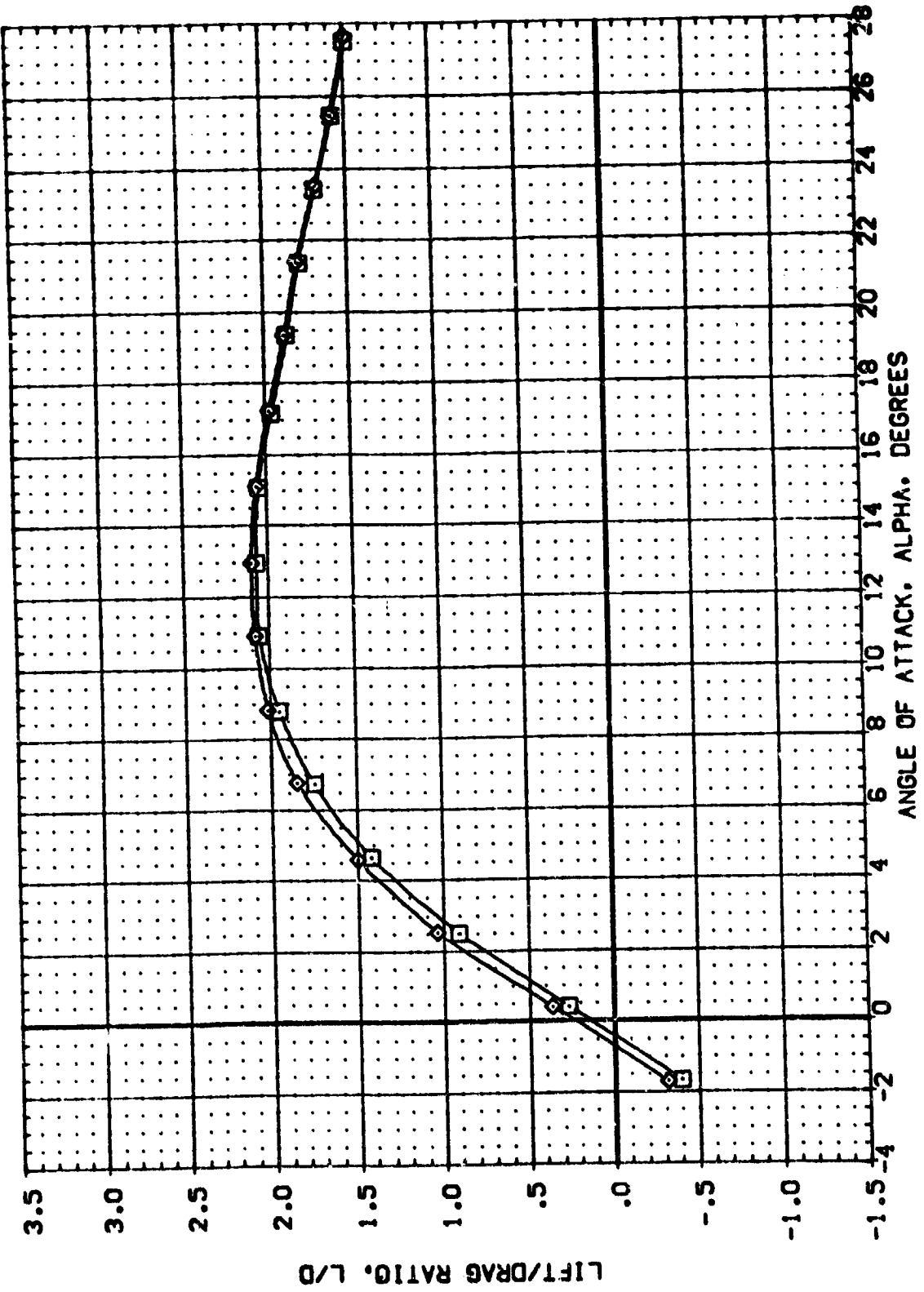


FIG. 11 BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION
[RST010]	AVES 66-706 0413 810 03 07 M3 V87E18 V5RS	-14.200	.000	54.500	.000	SET 200.0000 90.00
[RST004]	AVES 66-706 0413 810 03 07 M3 F4 V87E18 V5RS	.000	.000	54.500	.000	REF 174.0000 10.00
[RST012]	AVES 66-706 0413 810 03 07 M3 F4 V87E18 V5RS	.000	.000	54.500	.000	REF 1076.0000 10.00
						TYPE 400.0000 10.00
						SCALE .0150 10.00

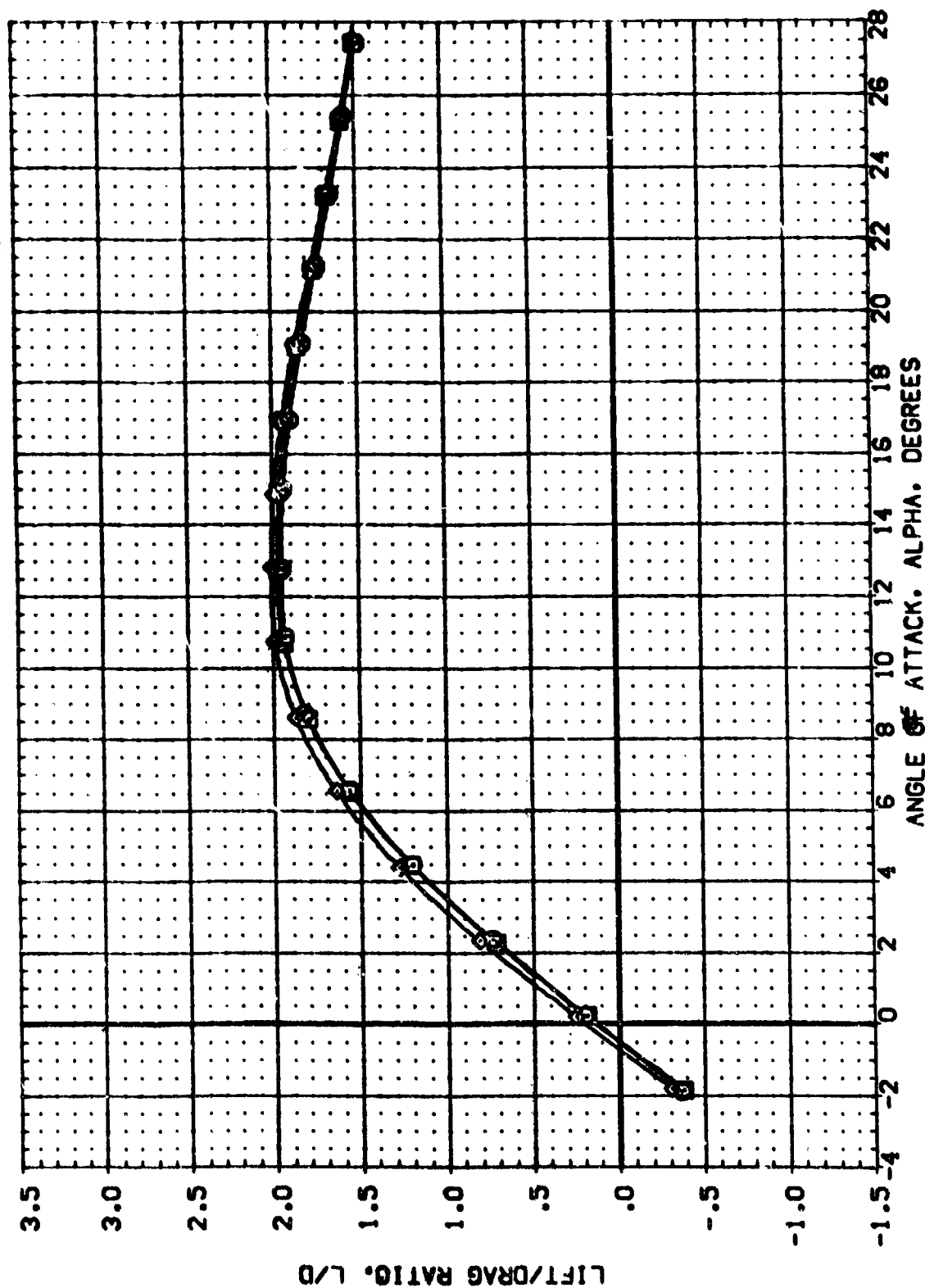


FIG. 11 BODY FLAP EFFECT

(O)MACH = 1.50

DATA SET SYMBOL: [R87010] [R87012] [R87014] [R87016]

CONFIGURATION DESCRIPTION: ASES 66-706 0A43 B10 CS D7 P3 V87E18 V355
 ASES 66-706 0A43 B10 CS D7 P3 V87E18 V355
 ASES 66-706 0A43 B10 CS D7 P3 V87E18 V355

BOOFLP: -14.200
 ELEVON: .000
 SPORK: .000
 RUDDER: .000

REFERENCE INFORMATION: SREF 2880.0000 92.0000
 LREF 474.0000 10.0000
 XREF 538.0000 10.0000
 YREF 1076.4800 10.0000
 ZREF 400.0000 10.0000
 SCALE .0150

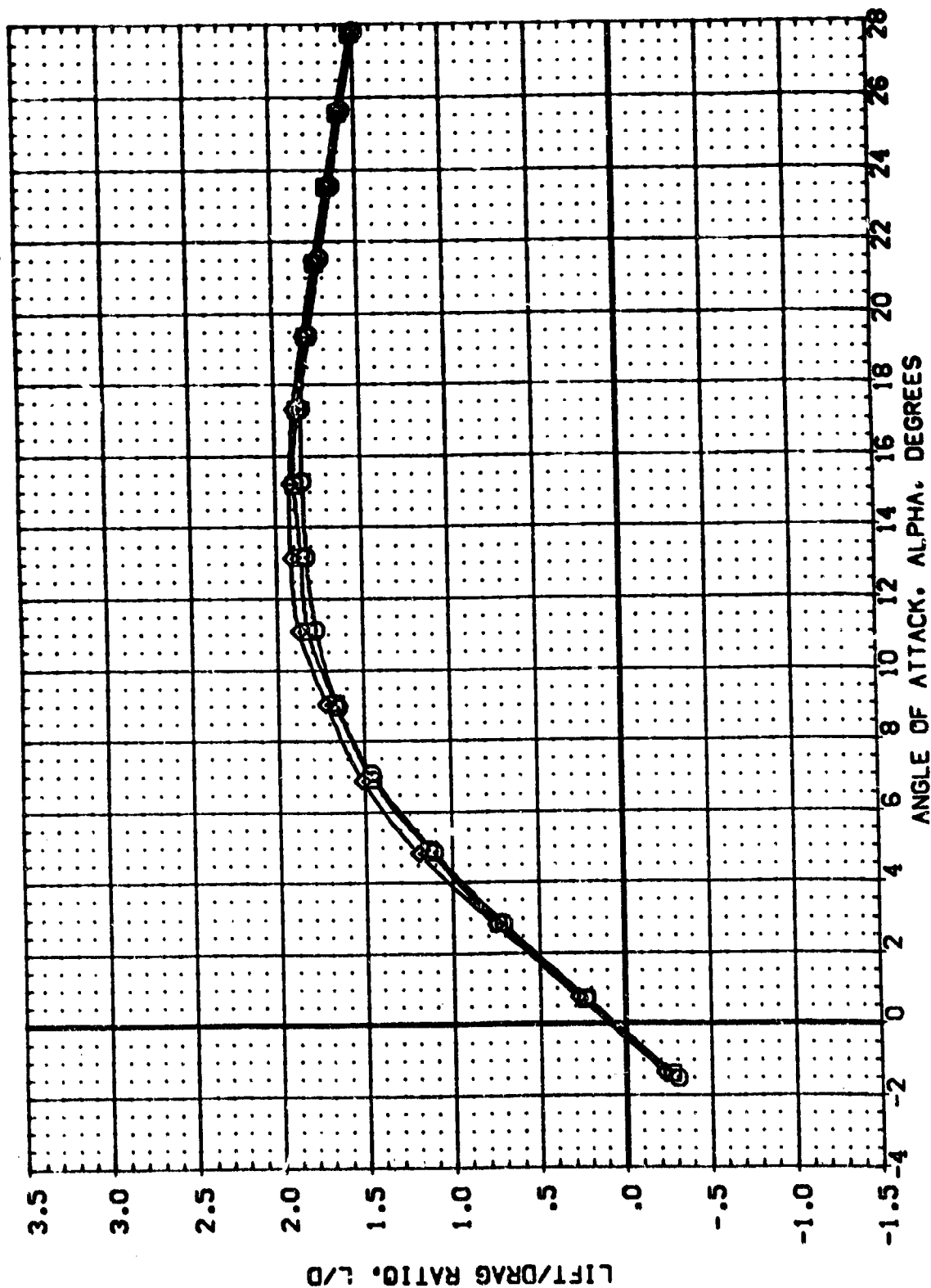


FIG. 11 BODY FLAP EFFECT

(C)MACH = 2.00

DATA SET SYMOL: **CS** CONFIGURATION DESCRIPTION: **CS D7 F4 V07E18 V09S**
 (RSTO:0) DATA NOT AVAILABLE
 (RSTO:1) AYES 65-705 0M3 B10 CS D7 F4 V07E18 V09S
 (RSTO:2) AYES 65-705 0M3 B10 CS D7 F4 V07E18 V09S

BOOFLP: **-14.700** ELEVON: **.000** SPORK: **.000** RUDDER: **.000**

REFERENCE INFORMATION:
 SHEET: **2000.0000** 20.FT.
 LINE: **474.0000**
 XREF: **1078.4000**
 YREF: **.0000**
 ZREF: **.0000**
 SCALE: **400.0000**

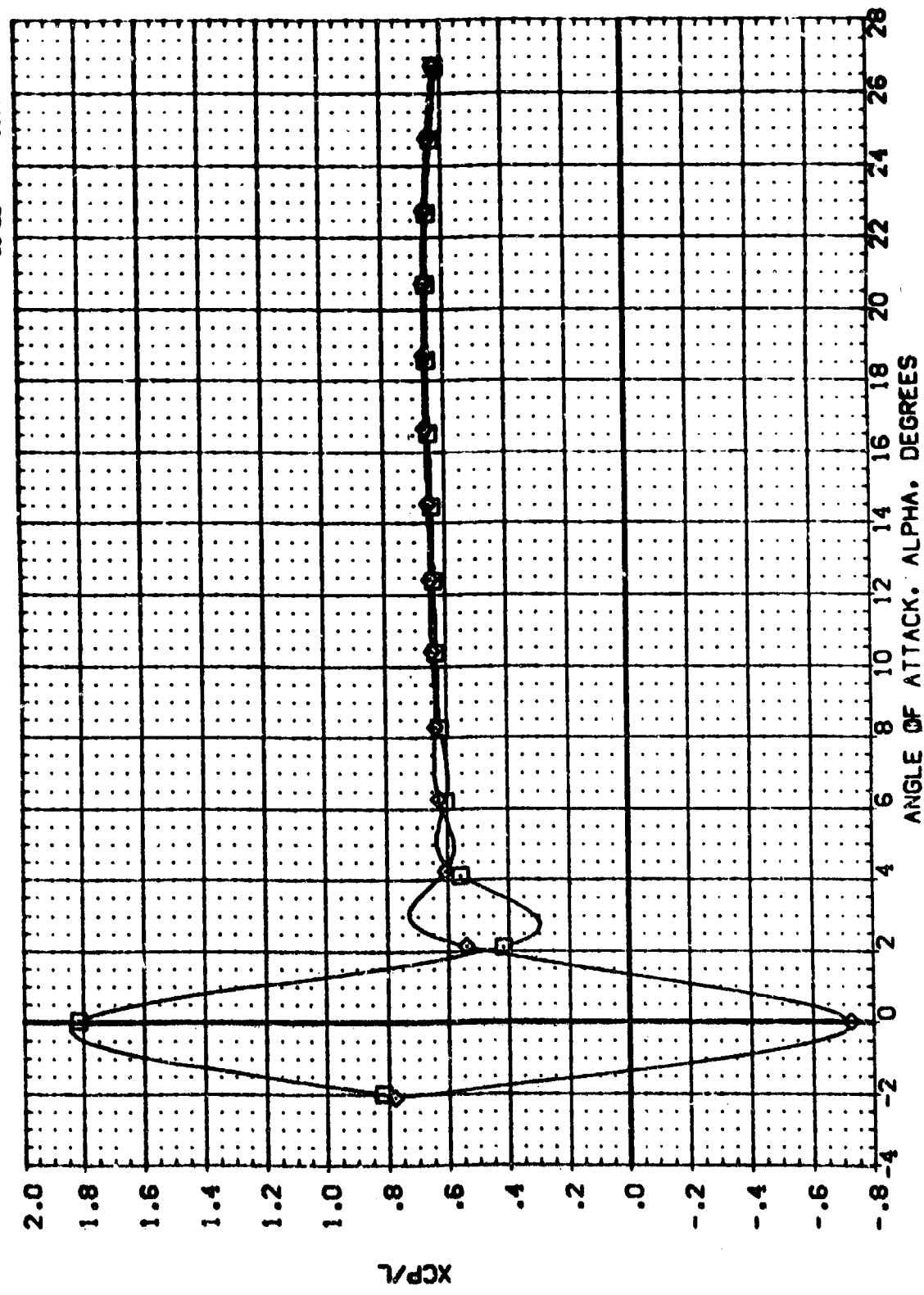


FIG. 11 BODY FLAP EFFECT
 (M)MACH = .60

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DATA SET SYMBOL: **Q** CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 (RST01) ARES 66-706 D413 B10 CS D7 H3 F4 W87E18 V395
 (RST04) ARES 66-706 D413 B10 CS D7 H3 F4 W87E18 V395
 (RST012) ARES 66-706 D413 B10 CS D7 H3 F4 W87E18 V395

BOOF P ELEVON SPOON RUDDER REFERENCE INFORMATION
 -14.200 .000 54.000 .000 2000.000 50.000
 .000 .000 54.000 .000 174.000 10.000
 .000 .000 54.000 .000 107.000 10.000
 400.000 400.000 400.000 400.000 400.000 400.000
 SCALE 400.0000 SCALE 400.0000

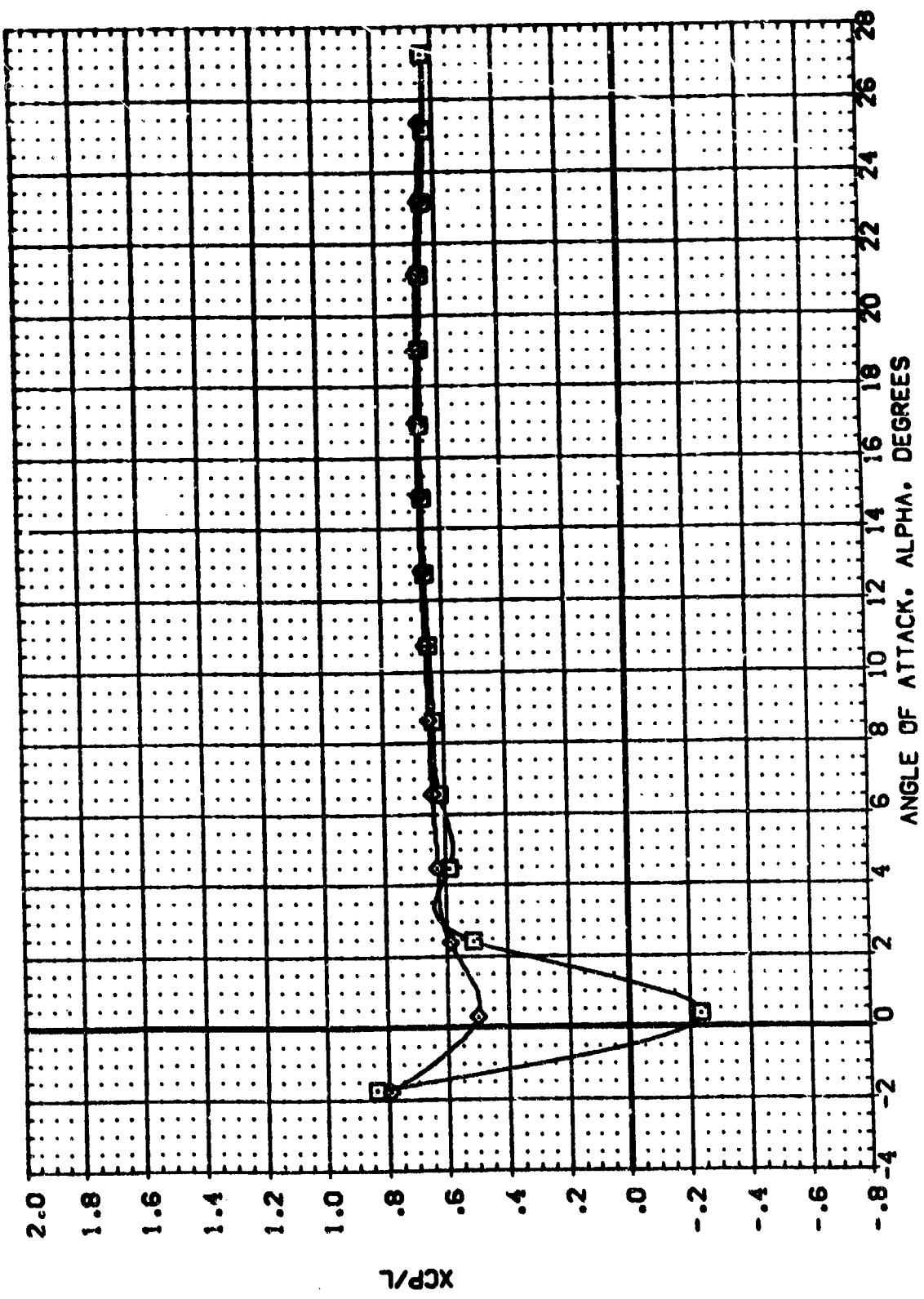


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RST010) DATA NOT AVAILABLE

(RST004) APES 66-706 CM3 B10 CS D7 M3 F4 V87E18 VSMS

(RST012) APES 66-706 CM3 B10 CS D7 M3 F4 V87E18 VSMS

BOOF LP ELEVON SPOONK RUGGER

-14.200 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 171.0000 IN.

BREF 632.0000 IN.

XPRP 1076.0000 IN.

YPRP .0000 IN.

ZPRP 400.0000 IN.

SCALE .0150

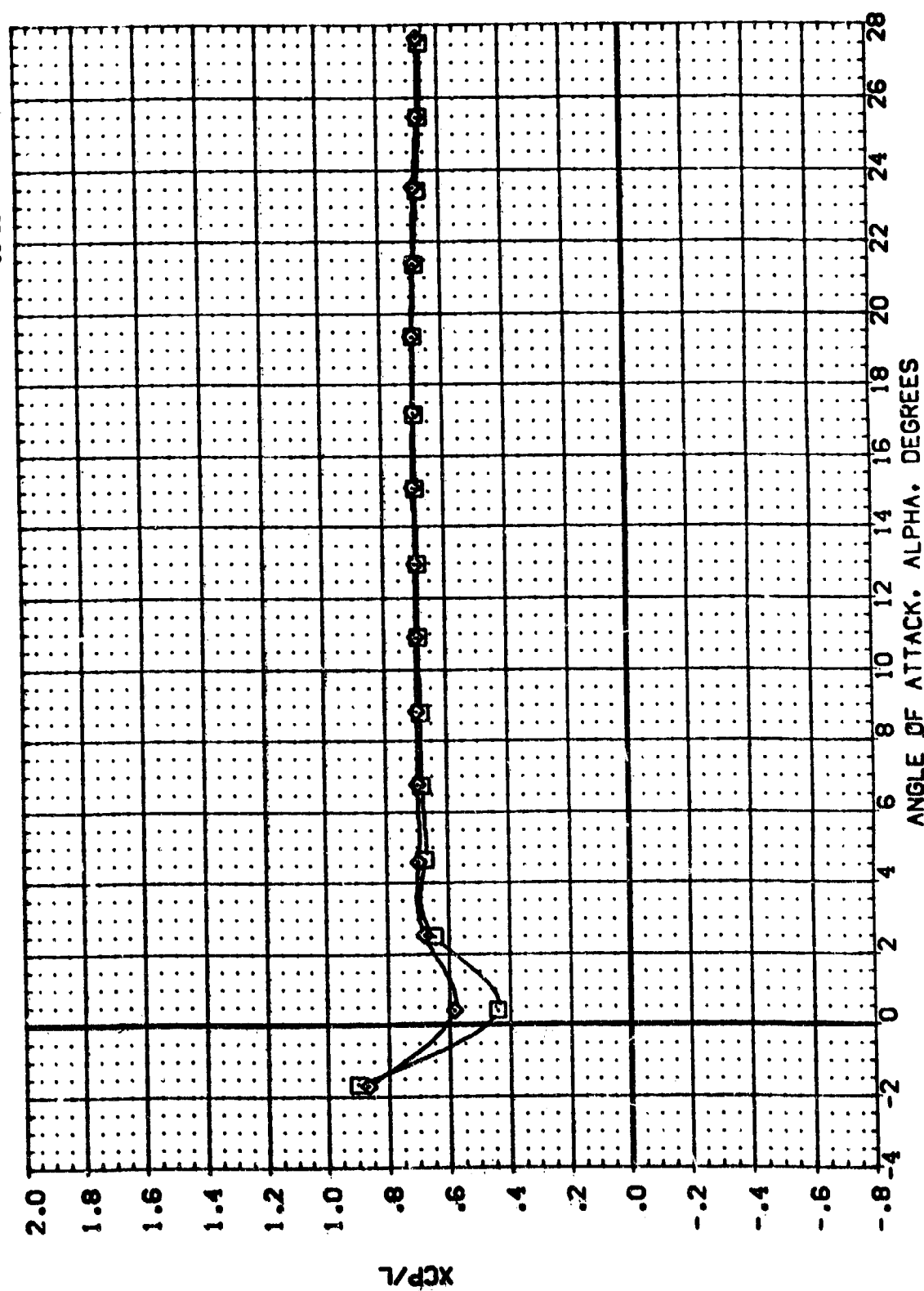


FIG. 11 BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOONK	FLUDER	REFERENCE INFORMATION	
187010	AVES 66-706 0A13 B10 CS D7 H3	-14.200	.000	54.500	.000	SREF	2690.0000
187004	AVES 66-706 0A13 B10 CS D7 H3	.000	.000	54.500	.000	LREF	474.6000
187012	AVES 66-706 0A13 B10 CS D7 H3	.000	.000	54.500	.000	BREF	936.6000
						XPRP	1076.4800
						YPRP	.0000
						ZPRP	.0000
						SCALE	.0150
							SO.FT.
							IN.
							IN.
							IN.

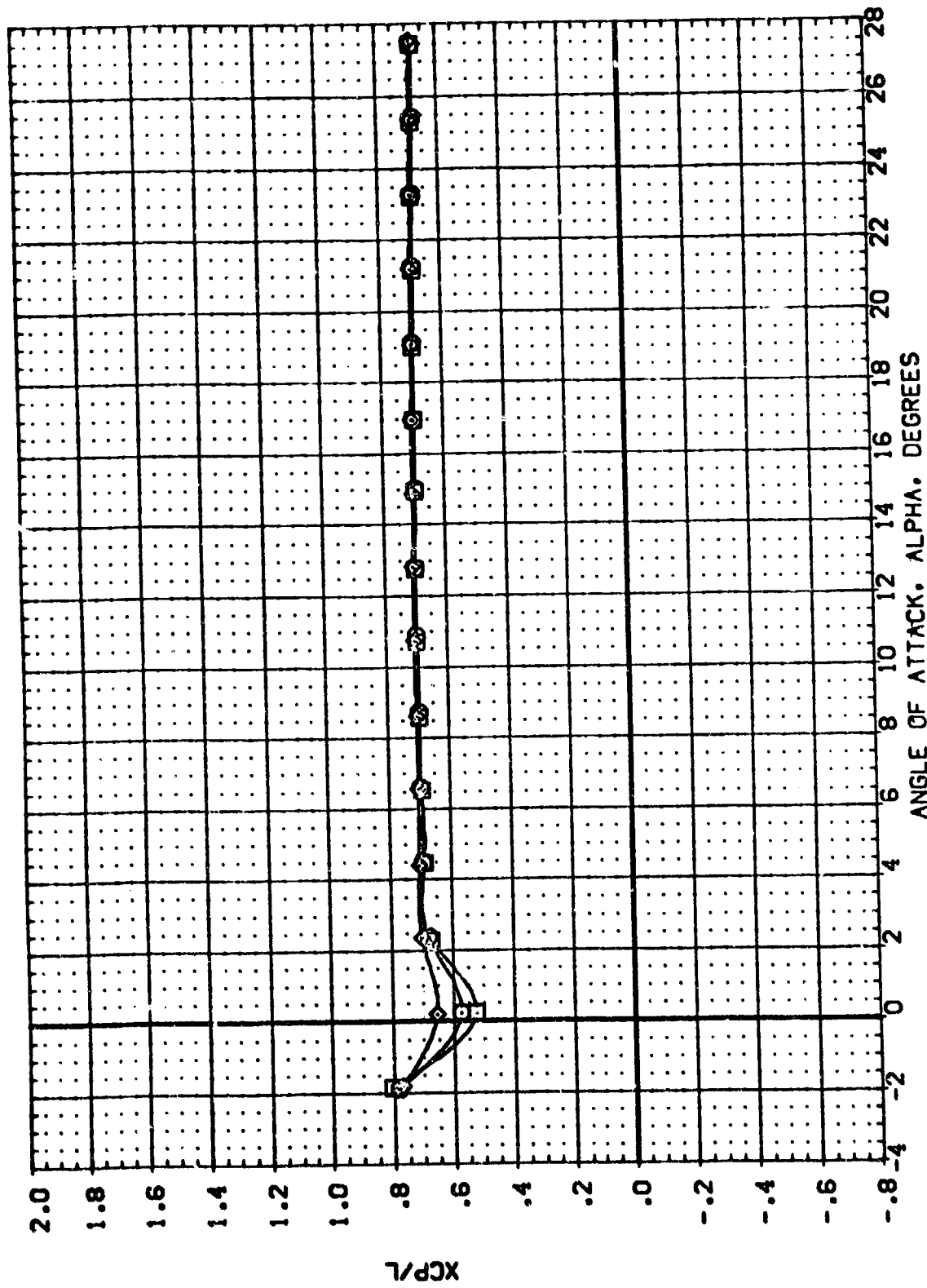


FIG. 11 BODY FLAP EFFECT

(0)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPORBK	RUDER	REFERENCE INFORMATION
(R870:0)	AMES 66-706 DA43 810 CS D7 H3 V87E18 V595		.000	54.900	.000	SREF 2690.0000 90.00
(R87004)	AMES 66-706 DA43 810 CS D7 H3 F4 V87E18 V595	-14.200	.000	54.900	.000	LINE 474.0000 IN.
(R87012)	AMES 66-706 DA43 810 CS D7 H3 F4 V87E18 V595	.000	.000	54.900	.000	BREF 928.0000 IN.
						XPRP 1076.4000 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150 SCALE

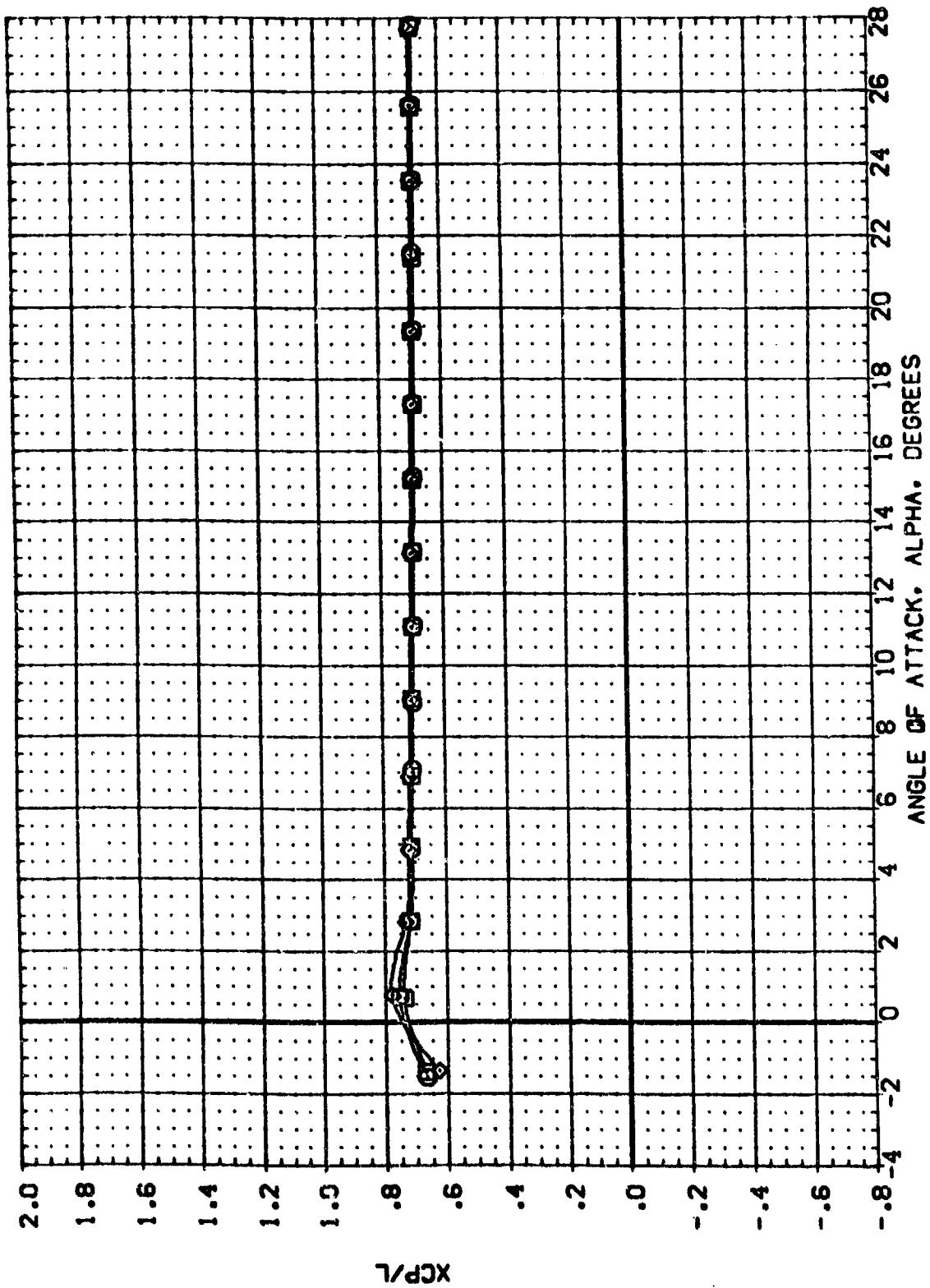


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMBOL: (R8T010) (R8T004) (R8T012)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 AYES 66-70S CM3 B10 C5 D7 M3 F4 V87E18 VSRS
 AYES 66-70S CM3 B10 C5 D7 M3 F4 V87E18 VSRS

BOOF LP ELEVON SPDBRK R.ODDER

-14.200 .000 .000 .000 .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. IN.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XPRP 1076.4800 IN.
 YPRP 400.0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

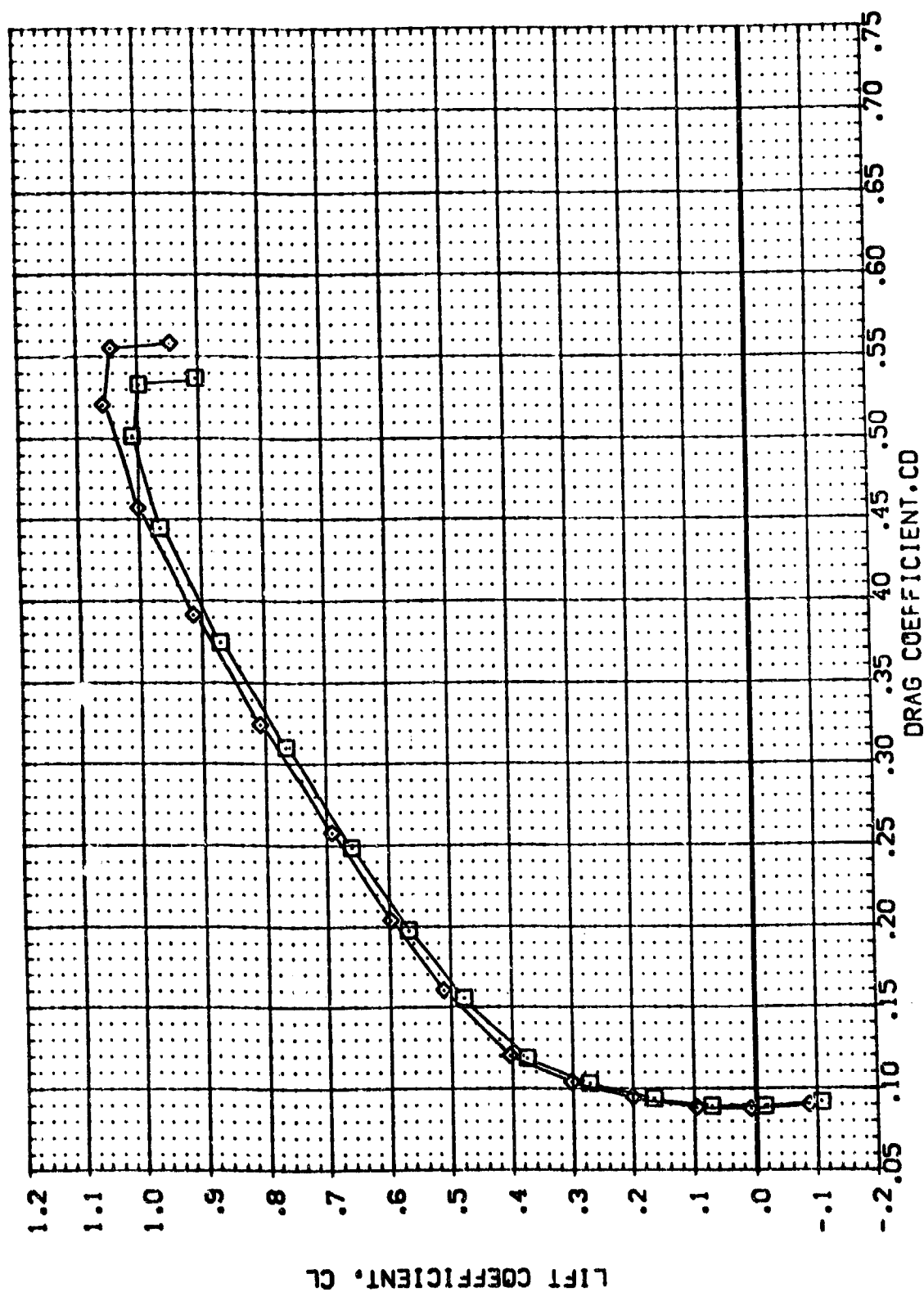


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BODY		ELEVON		SPD		RATER		REFERENCE INFORMATION	
(RSTO:0)		DATA NOT AVAILABLE										SREF	2880.0000
(RSTO:1)												LREF	474.8000
(RSTO:2)		A=5 66-706 0A43 B10 C5 07 F4 V87E18 V595		-14.200								BREF	938.8000
		A=5 66-706 0A43 B10 C5 07 F4 V87E18 V595		.000								XREF	1076.4000
												YREF	.0000
												ZREF	400.0000
												SCALE	.0150

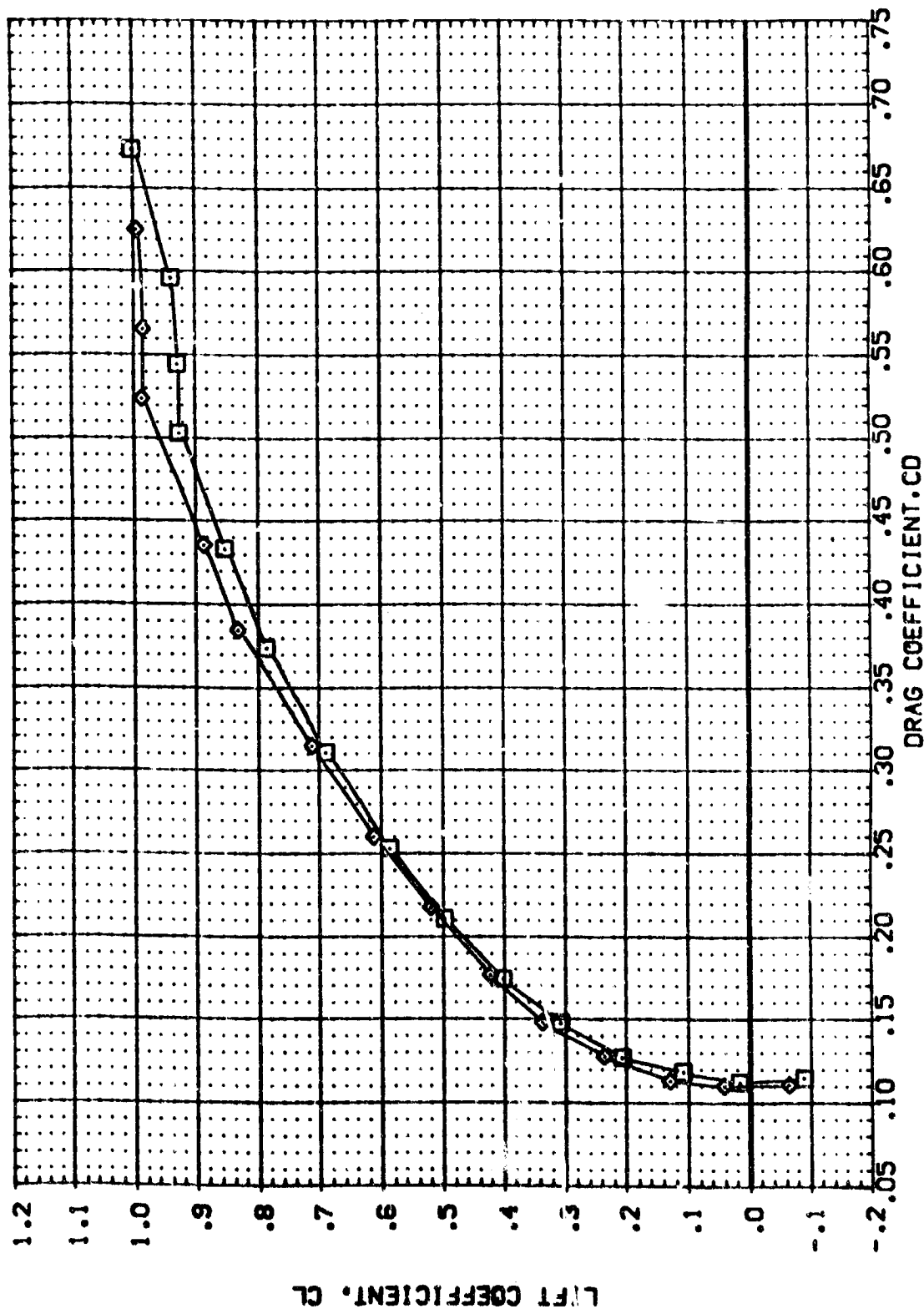
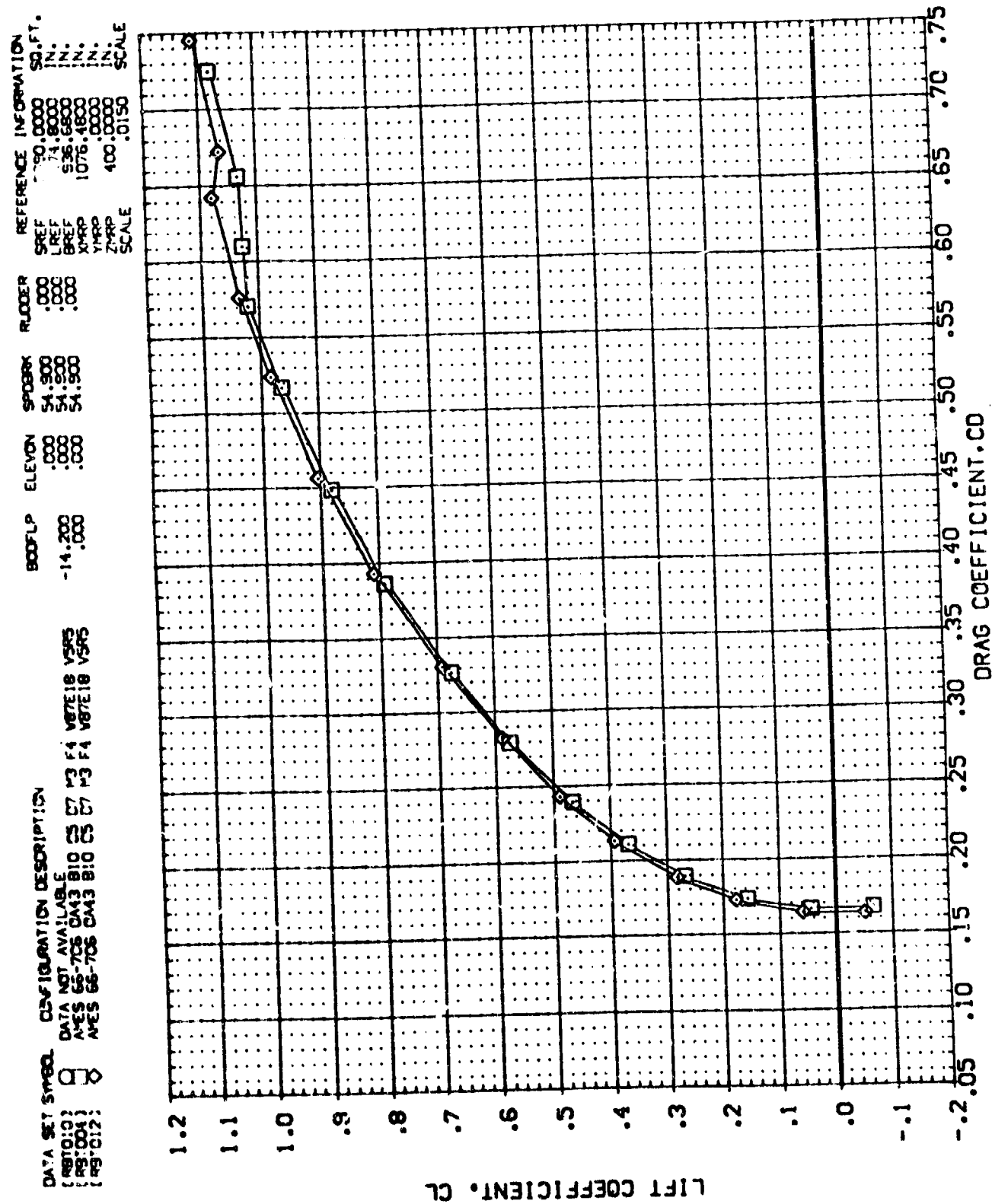


FIG. 11 BODY FLAP EFFECT

(3) MACH = .91



CC)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RB 0:0) ASES 66-706 0A-3 B10 CS 07 M3 V87E18 VSRS
 (RB 0:0A) ASES 66-706 0A-3 B10 CS 07 M3 F4 V87E18 VSRS
 (RB 0:2) ASES 66-706 0A-3 B10 CS 07 M3 F4 V87E18 VSRS

BOOF LP ELEVON SPOBRK RUDEER

-14.200 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION

SREF 269.0000 SQ.FT.
 LREF 774.8000
 BREF 336.6000
 WREF 1076.4800
 WPRP 400.0000
 ZPRP 400.0000
 SCALE 0.150

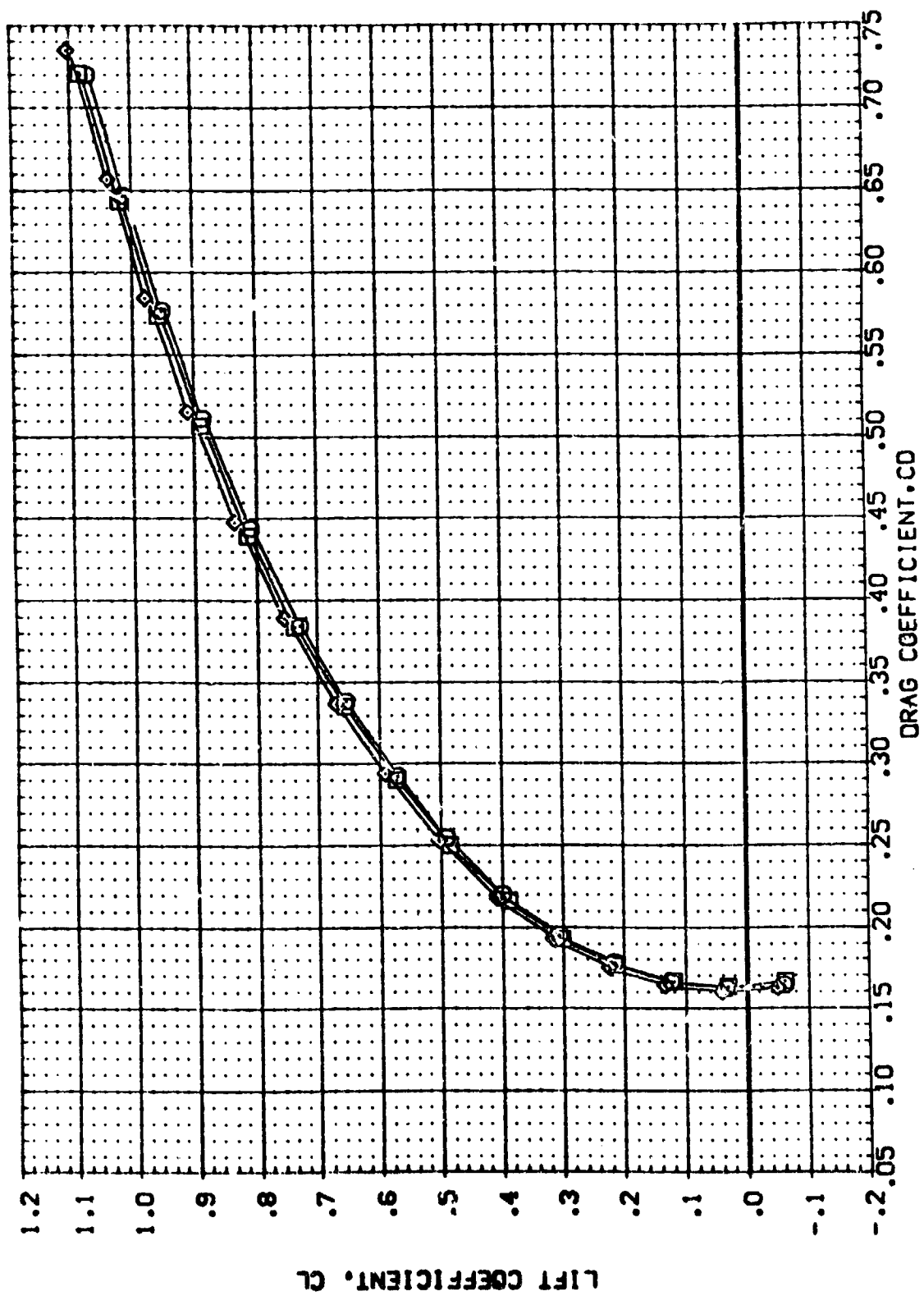


FIG. 11 BODY FLAP EFFECT
(D)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(RBT01G)	□	AVES 66-706	DA43 B10 CS D7 M3	.000	.000	54.900	.000	SREF	2690.0000	50. FT.	
(RBT0D4)	◇	AVES 66-706	DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	LREF	474.8000	IN.	
(RBT01:2)		AVES 66-706	DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF	936.6800	IN.	
								XPRP	1076.4800	IN.	
								YPRP	100.0000	IN.	
								ZPRP	100.0000	IN.	
								SCALE	.0150	SCALE	

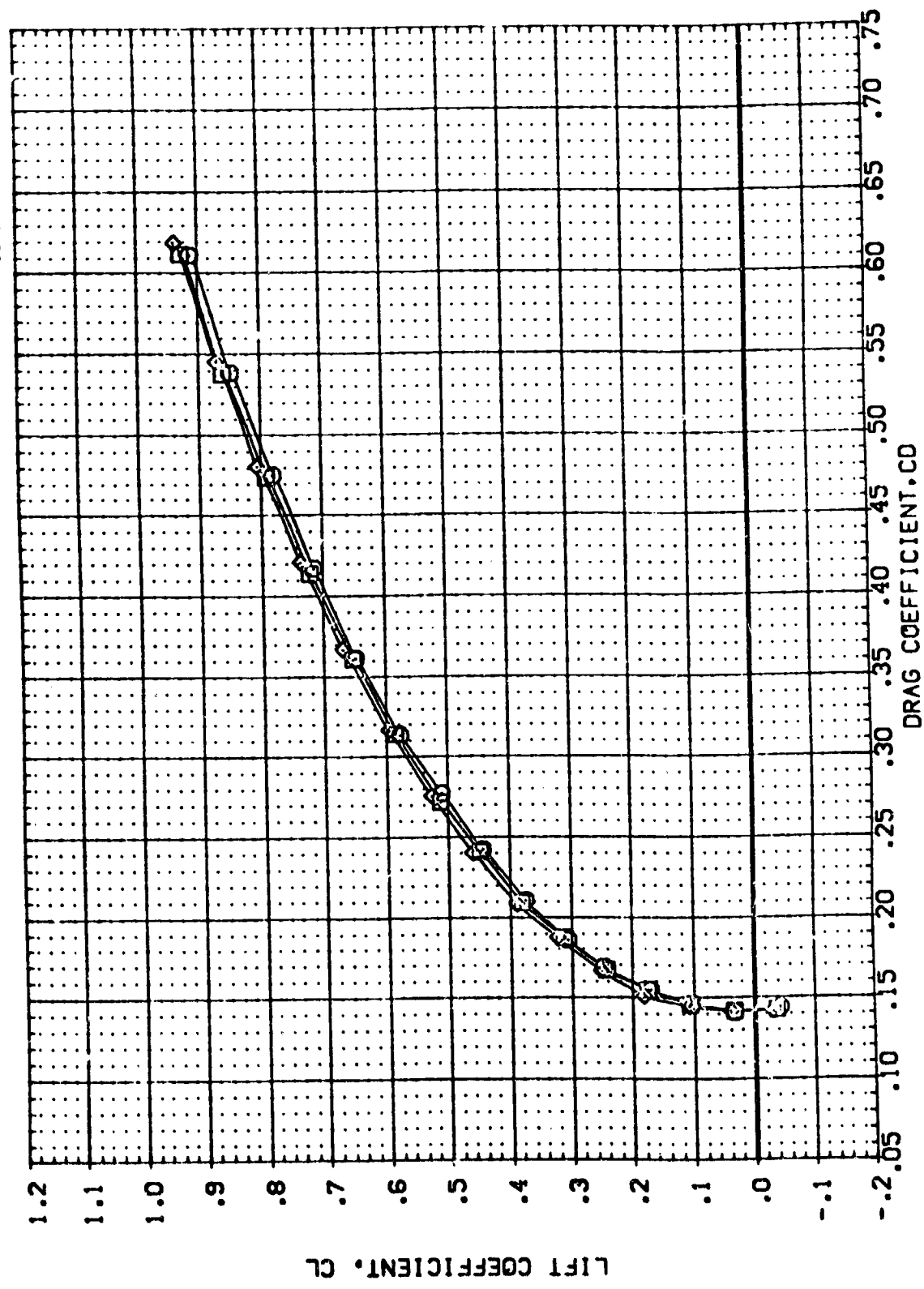


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ELEVON		SPORRY		RULER		REFERENCE INFORMATION	
[R87012]	[R87012]	DATA NOT AVAILABLE										.000	.000	.000	.000	SREF	2690.0000	SG.FT.	
[R81004]	[R81004]	AMES 65-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS										.000	.000	.000	.000	LREF	474.8000	IN.	
[R87012]	[R87012]	AMES 65-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS										.000	.000	.000	.000	BREF	936.8800	IN.	
												.000	.000	.000	.000	XPRP	1076.4800	IN.	
												.000	.000	.000	.000	YPRP	400.0000	IN.	
												.000	.000	.000	.000	ZPRP	400.0000	IN.	
												.000	.000	.000	.000	SCALE	.0150	SCALE	

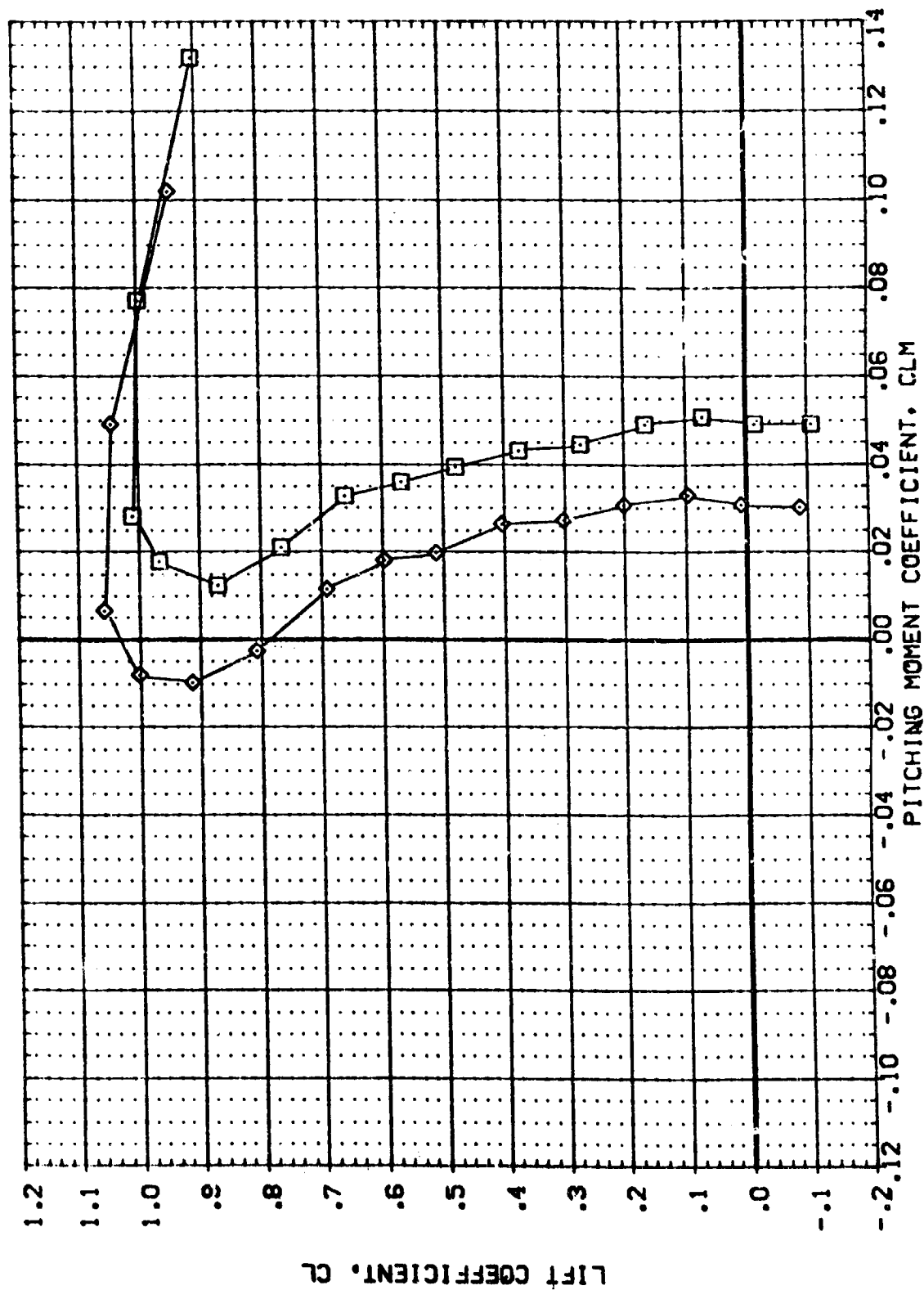


FIG. 11 BODY FLAP EFFECT

(M)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(R87010)		DATA NOT AVAILABLE		SREF	2590.0000
(R87004)		A4ES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V5K5		LREF	474.8000
(R87012)		A4ES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V5K5		BREF	936.6800
				XMRP	1076.4800
				YMRP	400.0000
				ZMRP	400.0000
				SCALE	.0150

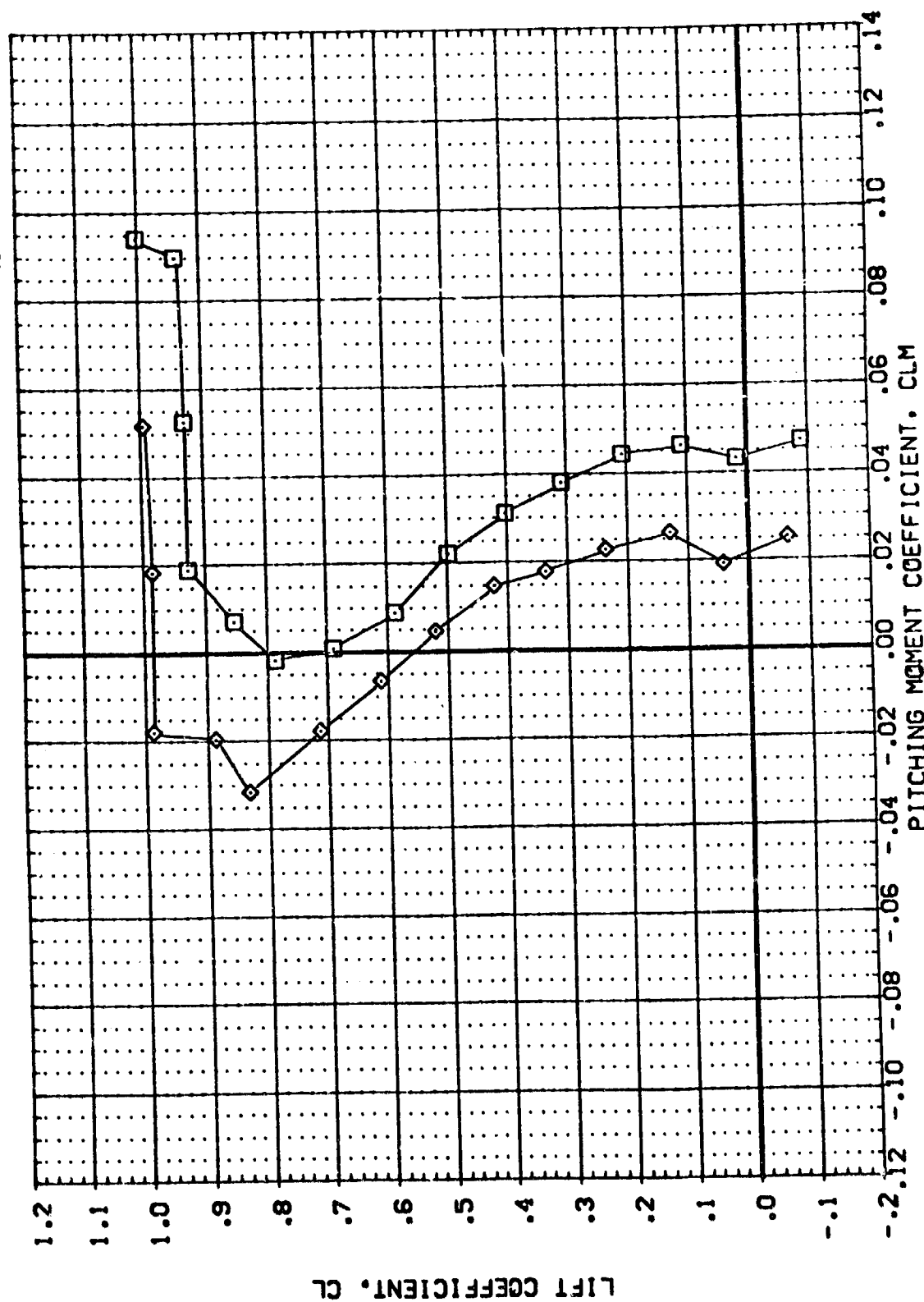


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL: --- CONFIGURATION DESCRIPTION

[RST010] DATA NOT AVAILABLE

[RST004] AVE3 66-706 0M43 B10 CS 07 M3 F4 V87E18 V595

[RST012] AVE3 66-706 0M43 B10 CS 07 M3 F4 V87E18 V595

BOOFLP ELEVON SPOBRK RUDDER

-14.200 .000 54.900 .000 .000

REFERENCE INFORMATION

SREF 2680.0000 SQ.FT.

LREF 474.8000 IN.

BREF 538.8500 IN.

XPRP 1076.4800 IN.

YPRP .0000 IN.

ZPRP .0000 IN.

SCALE 400.0000 IN.

SCALE .0150

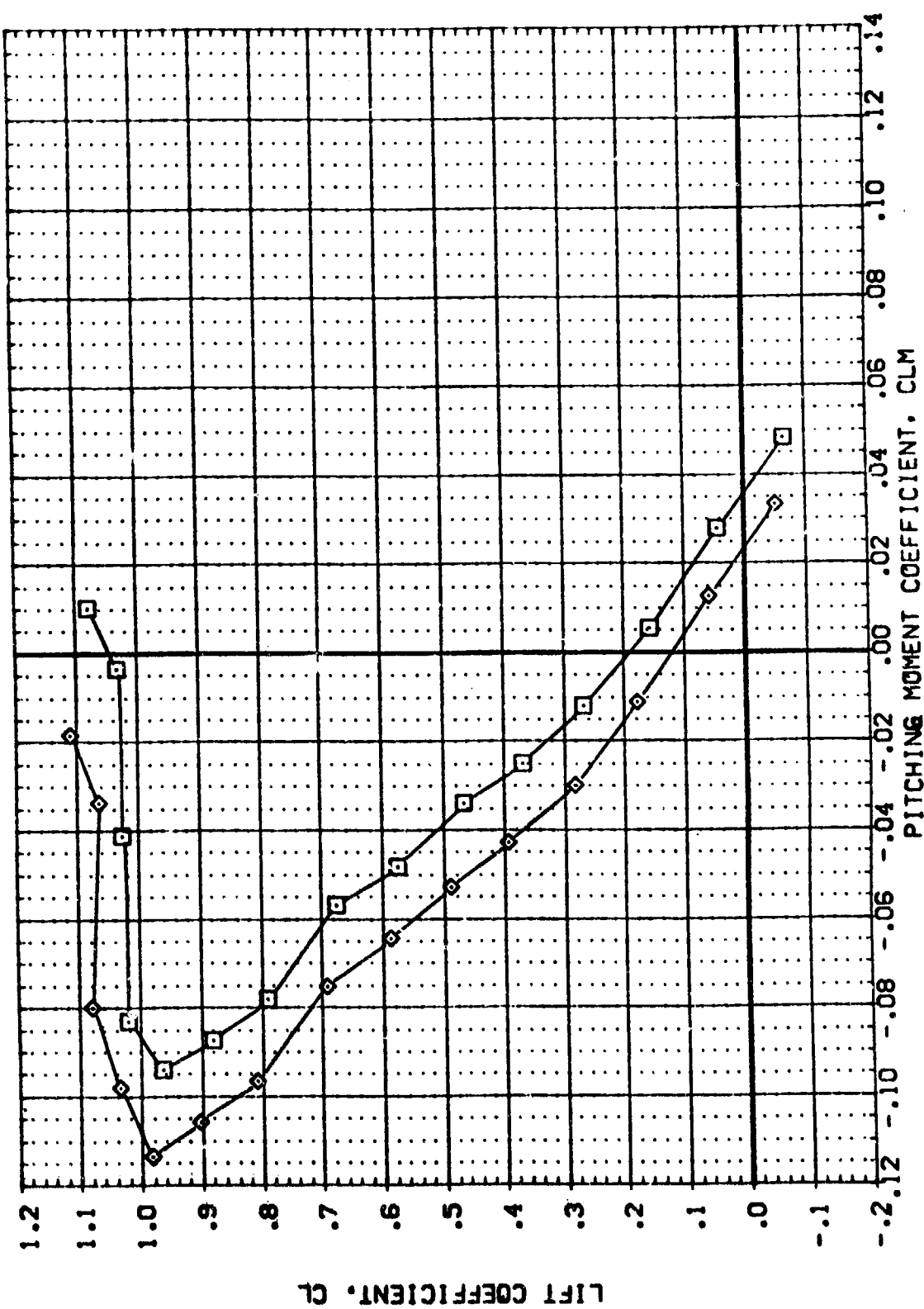


FIG. 11 BODY FLAP EFFECT
(C)MACH = 1.20

DATA SET SYMBL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(RST010)	AVES 65-705 DM13 B10 CS D7 M3	-14.200	.000	54.500	.000	SREF 2650.0000 SQ.FT.
(RST004)	AVES 65-705 DM13 B10 CS D7 M3 F4	.000	.000	54.500	.000	LREF 474.8000 IN.
(RST012)	AVES 65-705 DM13 B10 CS D7 M3 F4	.000	.000	54.500	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150 SCALE

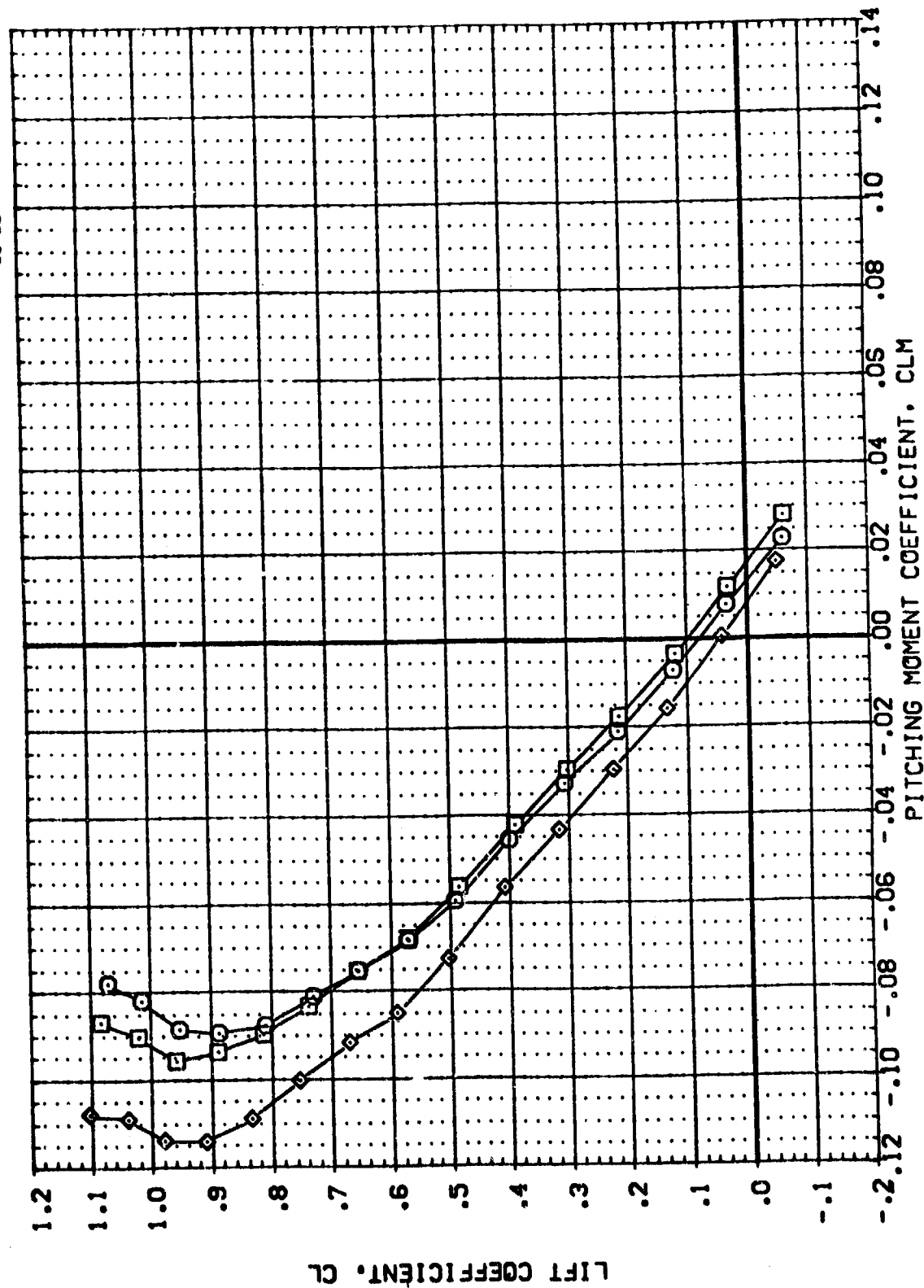


FIG. 11 BODY FLAP EFFECT
(O)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBY	RUDDER	REFERENCE INFORMATION
(RBT01C)	ANES 66-706 DA43 B10 CS D7 MG	-14.200	.000	54.900	.000	SREF 2890.0000 SQ.FT.
(RBT004)	ANES 66-706 DA43 B10 CS D7 MG	.000	.000	54.900	.000	LREF 474.8000 IN.
(RBT012)	ANES 66-706 DA43 B10 CS D7 MG	.000	.000	54.900	.000	BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

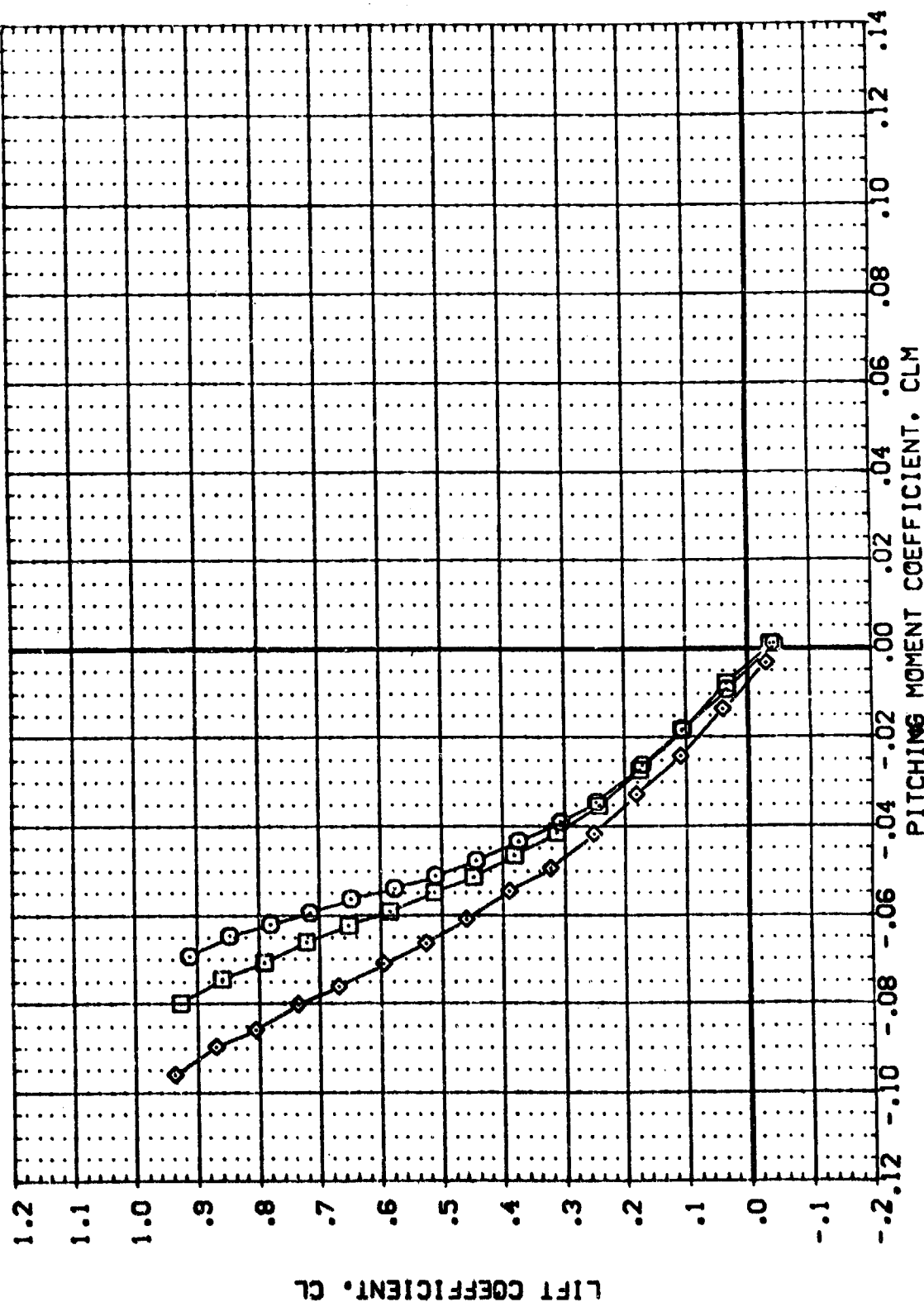


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMBOL: (R8T018) (R8T004) (R8T012)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 AYES 66-706 0M43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 0M43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFLP: -14.200
 ELEVON: .000
 SPOBRK: 54.900
 RUDDER: .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 VMRP: 1076.4800 IN.
 ZMRP: .0000 IN.
 SCALE: 400.0000 IN.
 .0150

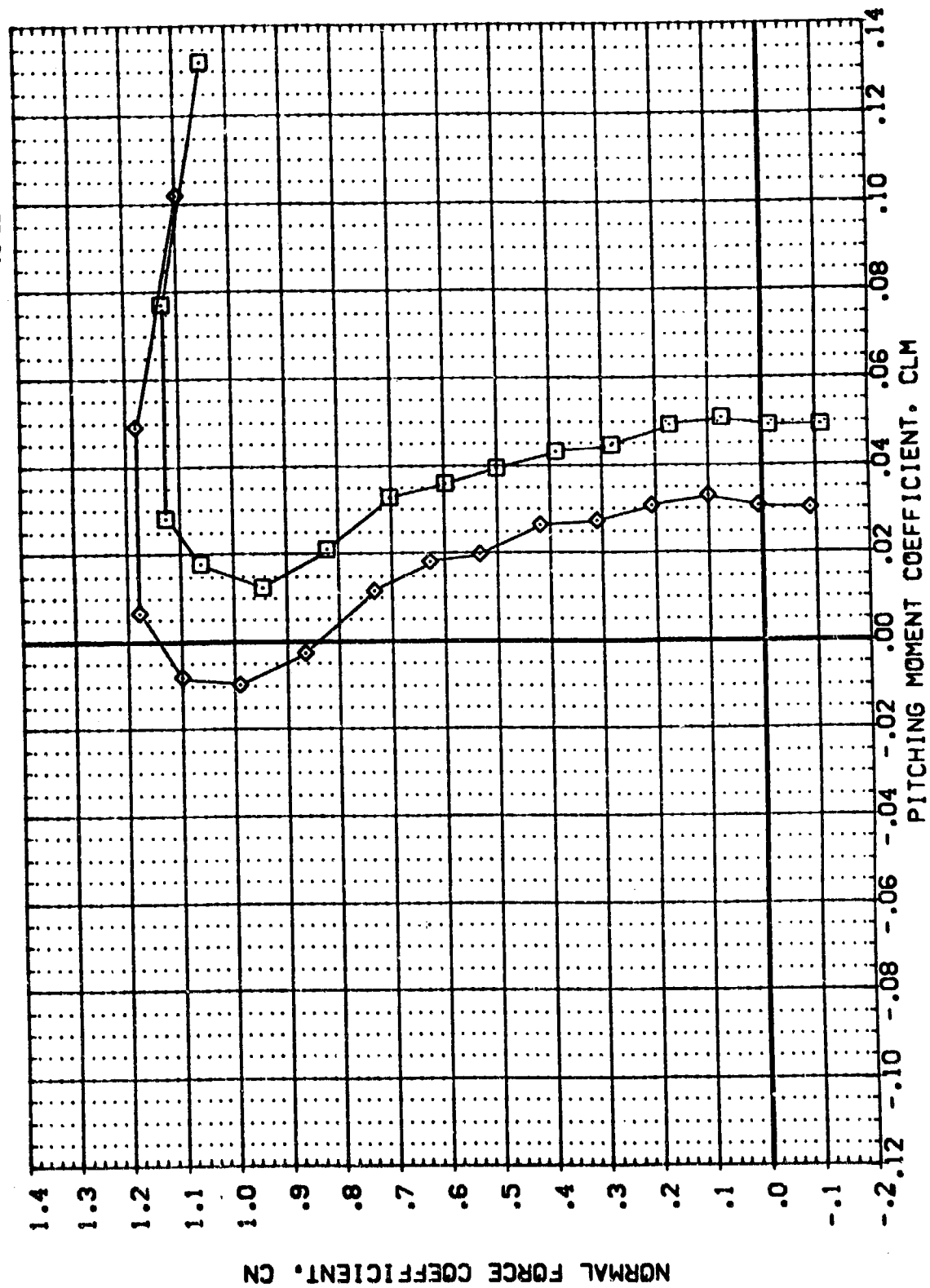


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60

DATA SET SYMBOL: **Q1** CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 (RST010) ANES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5R5
 (RST024) ANES 65-705 DM43 B10 CS D7 M3 F4 V87E18 V5R5
 (RST012)

800FLP ELEVON 8700BRK RLODER REFERENCE INFORMATION
 -14.200 .000 .000 .000 SQ.FT.
 .000 .000 .000 .000 IN.
 .000 .000 .000 .000 IN.
 X-REF 2650.0000
 Y-REF 474.8000
 Z-REF 936.5800
 X-REF 1076.4800
 Y-REF .0000
 Z-REF 100.0000
 SCALE .0150

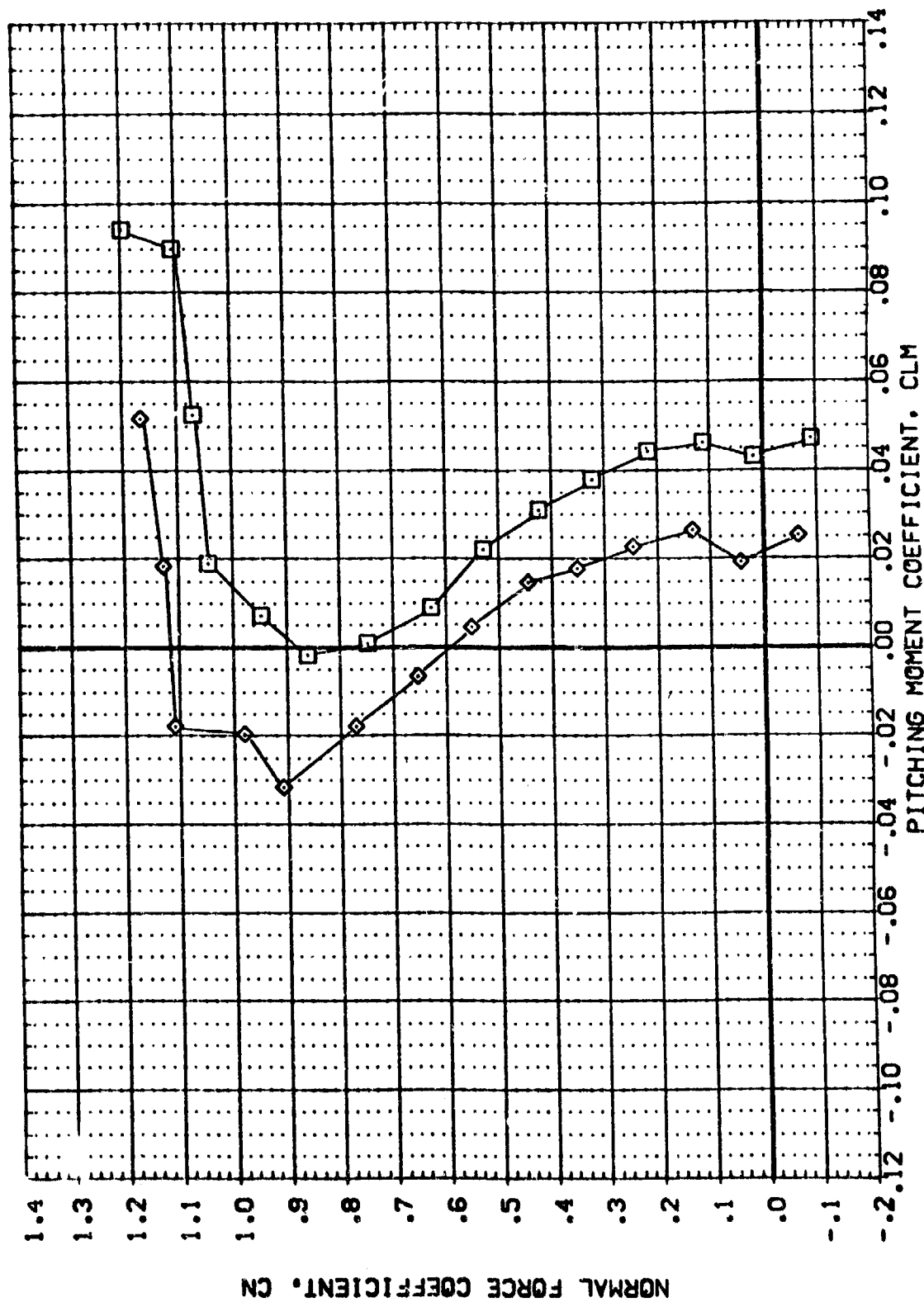


FIG. 11 BODY FLAP EFFECT

(B)MACH = .91

DATA SET SYMBOL: (R8T010) (R8T004) (R8T012)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 ASES 66-705 0M43 B10 CS D7 M3 F4 V87E18 V3M5
 ASES 66-705 0M43 B10 CS D7 M3 F4 V87E18 V3M5

BOOFLP: -14.200
 ELEVON: .000
 SPDBRK: 54.500
 RUDDER: .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 YMRP: 1076.4800 IN.
 ZMRP: .0000 IN.
 SCALE: 400.0000 IN.
 SCALE: .0150

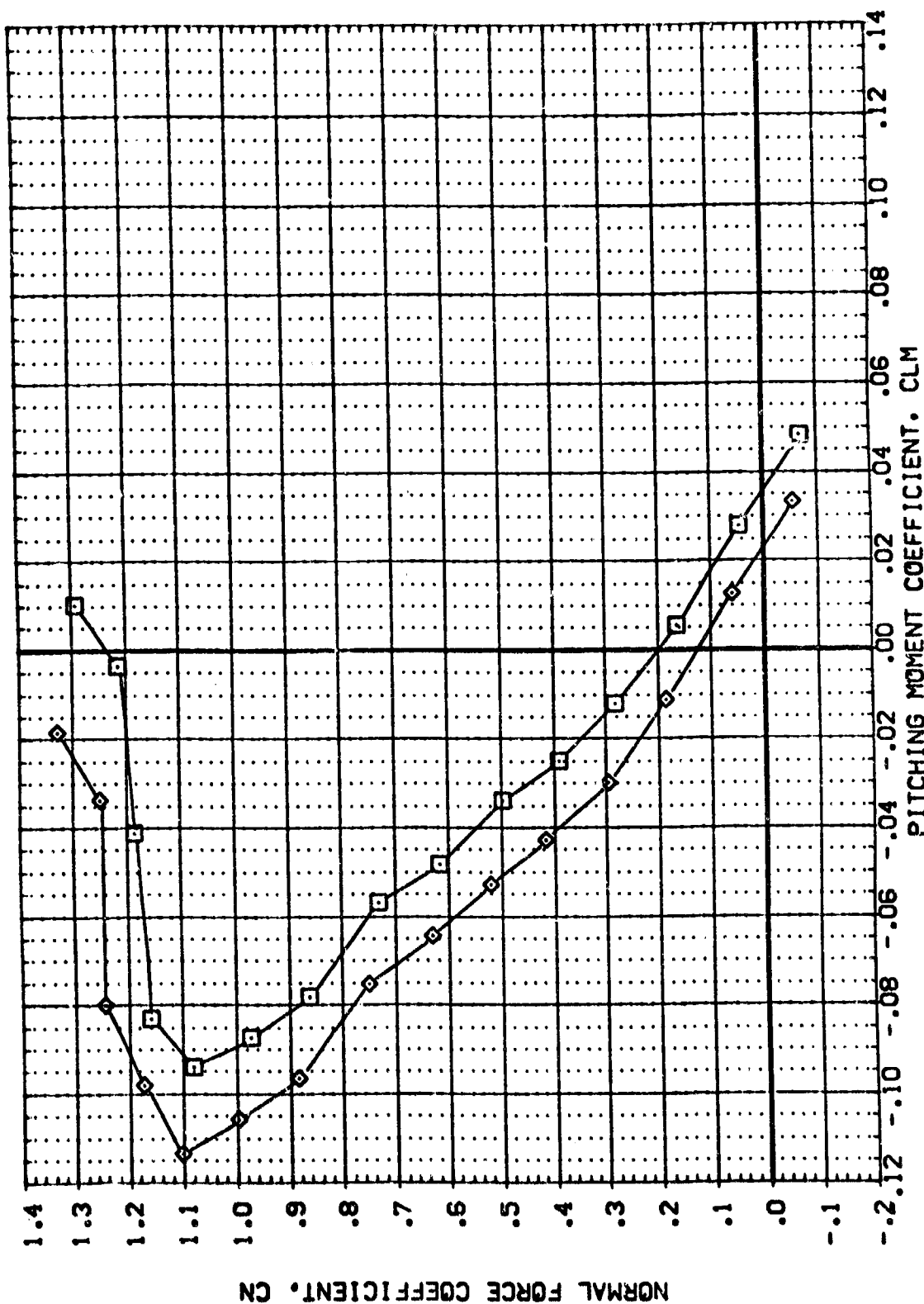


FIG. 11 BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRM	RUDDER	REFERENCE INFORMATION
(R8T010)	AVES 66-706 DA43 B10 CS D7 M3	-14.200	.000	54.900	.000	SREF 2690.0000
(R8T004)	AVES 66-706 DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	LREF 474.8000
(R8T012)	AVES 66-706 DA43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF 938.6800
						XREF 1076.1800
						YREF .0000
						ZREF 400.0000
						SCALE .0150
						50.FT.

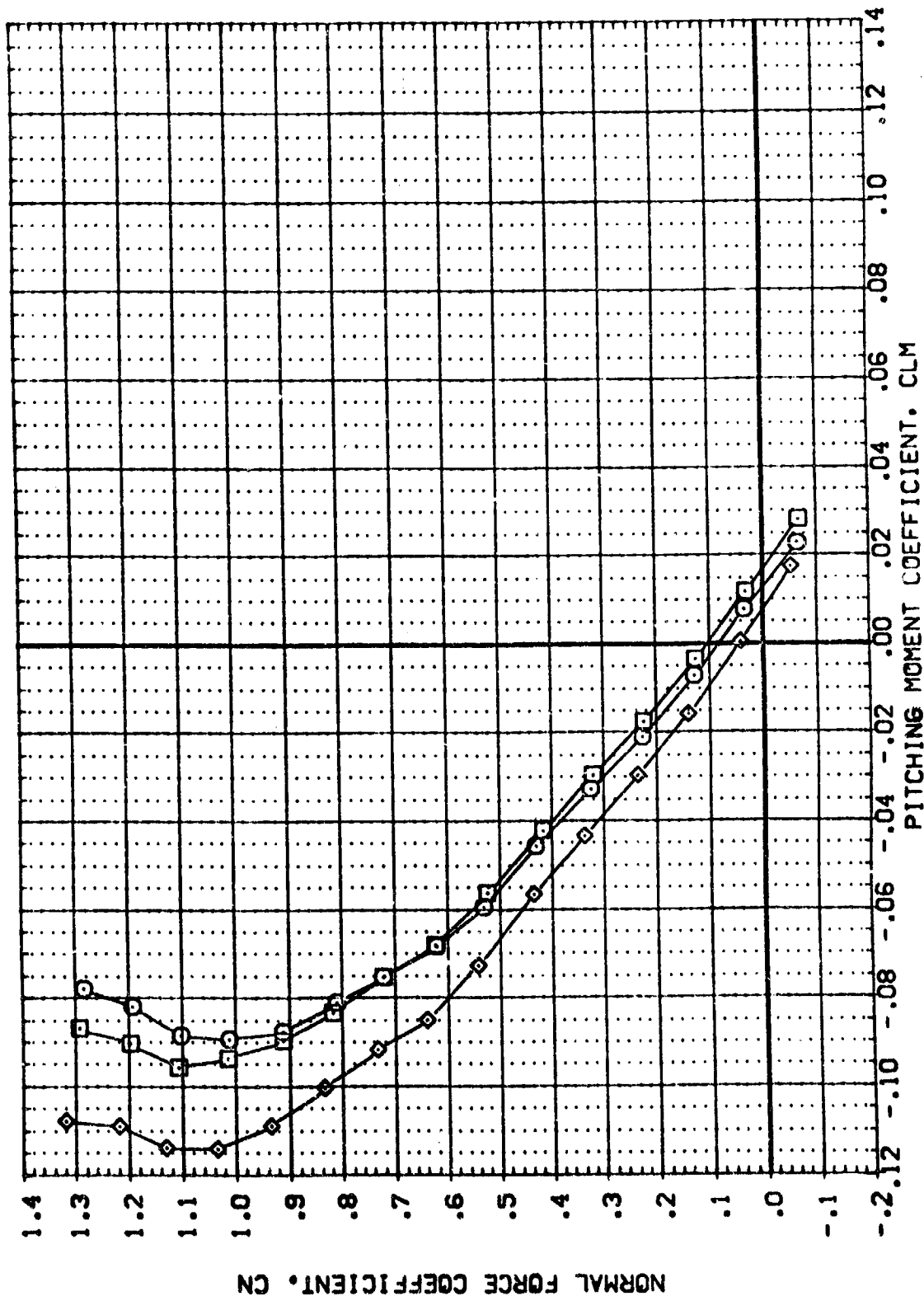


FIG. 11 BODY FLAP EFFECT

(CM)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(RST010)	AVES 66-706 0A43 B10 CS D7 M3 V87E18 V5K5	-14.200	.000	54.500	.000	SREF 2650.0000 SQ.FT.
(RST004)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	.000	.000	54.500	.000	LREF 474.8000 IN.
(RST012)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	.000	.000	54.500	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

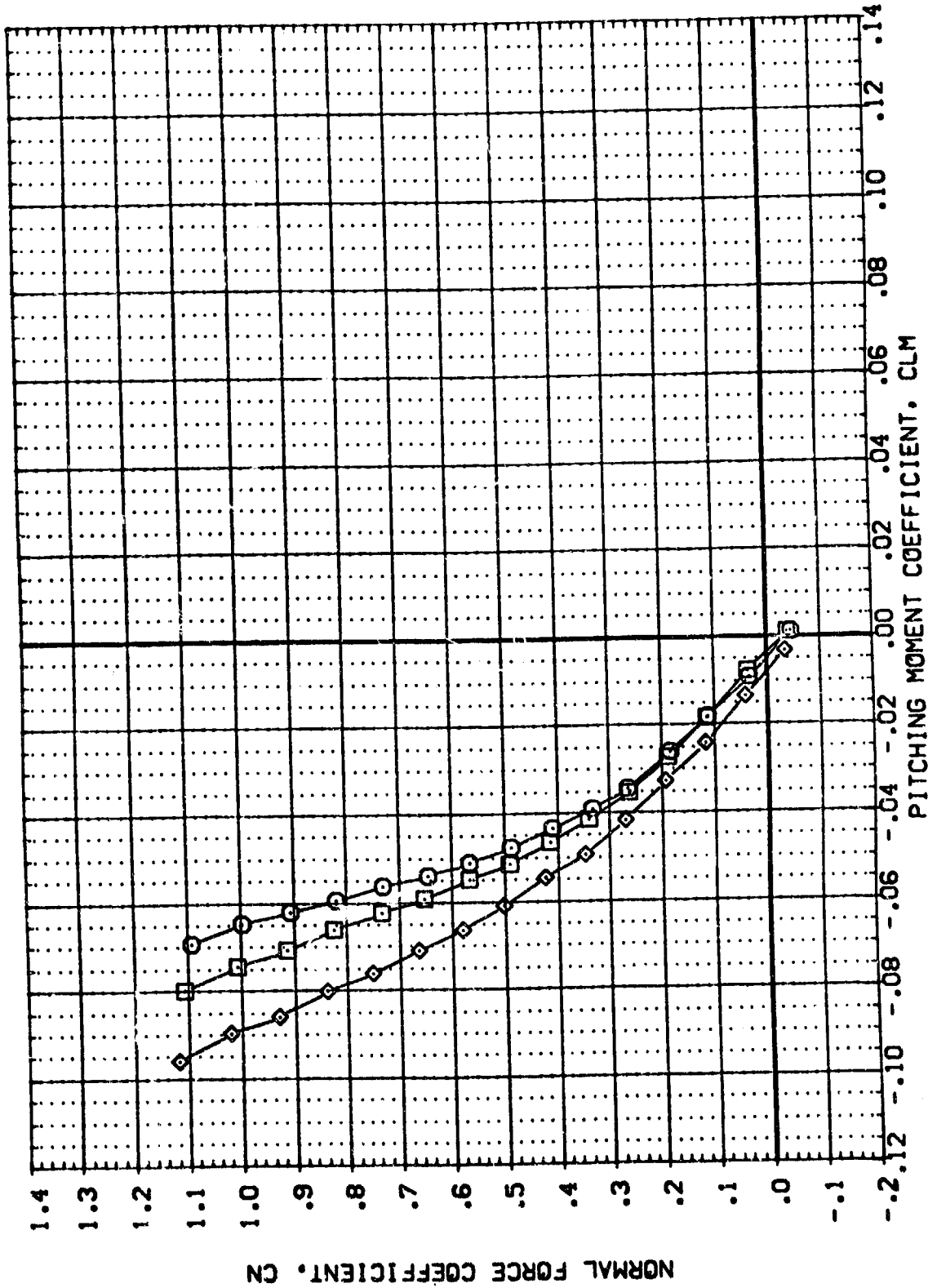


FIG. 11 BODY FLAP EFFECT

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPORBK	NUDGER	REFERENCE INFORMATION
{ RBT010 }	DATA NOT AVAILABLE		.000	54.900	.000	SREF 2690.0000 50.FT.
{ RBT004 }	APES 65-705 DM43 B10 CS 07 M3 F4 V87E18 V595	-14.200	.000	54.900	.000	LREF 474.8000 IN.
{ RBT012 }	APES 65-705 DM43 B10 CS 07 M3 F4 V87E18 V595	.000	.000	54.900	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

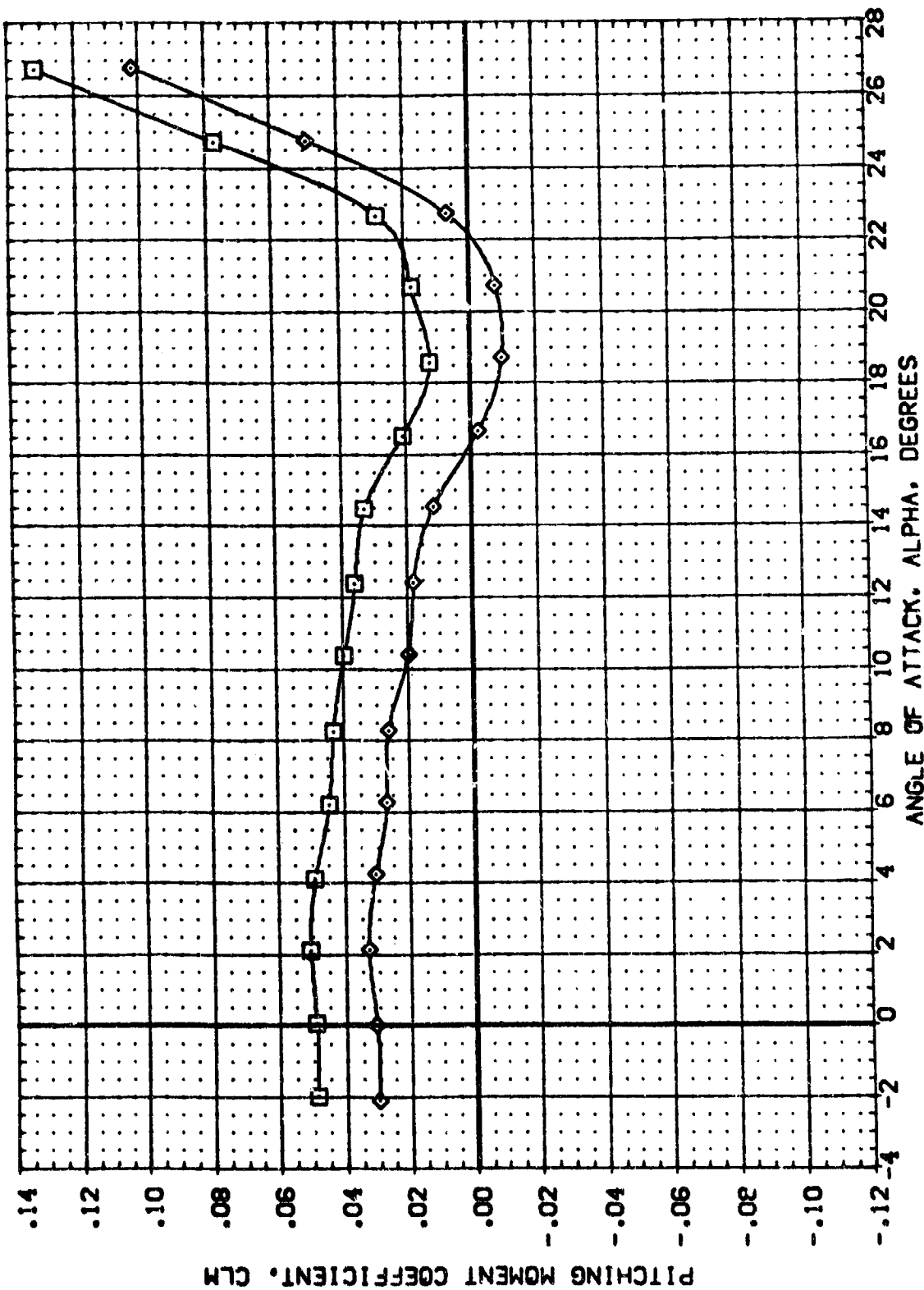


FIG. 11 BODY FLAP EFFECT

(A)MACH = .60



DATA SET SYMBOL: (R8T0101) (R8T004) (R8T012)

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 AYES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFLO: -14.200
 ELEVON: .000
 SPOBRK: 54.900
 RUDDER: .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP 400.0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

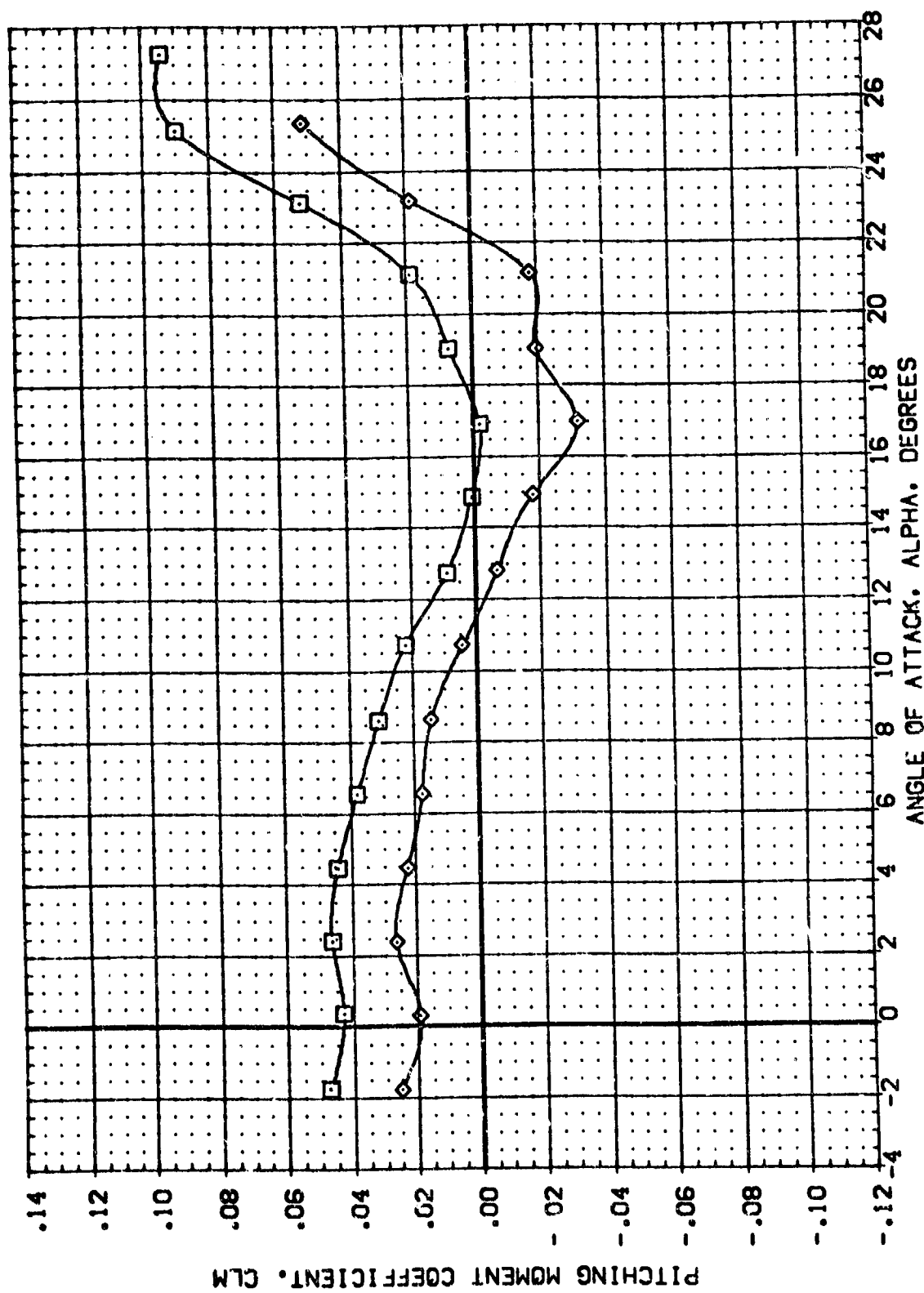


FIG. 11 BODY FLAP EFFECT

(9)MACH = .91

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BODY L.P.		ELEVON		SPD BRK		FLUOR		REFERENCE INFORMATION			
(RST010)		DATA NOT AVAILABLE										-14.200		.000		54.300		.000		2690.0000			
(RST004)		AHS 65-705 DA13 B10 CS D7 M3 F4 V87E18 VSR5										.000		.000		54.900		.000		474.8000			
(RST012)		AHS 65-705 DA13 B10 CS D7 M3 F4 V87E18 VSR5										.000		.000		54.900		.000		306.6800			
																				1076.4800			
																				.0000			
																				.0000			
																				400.0000			
																				.0150			
																				SCALE			

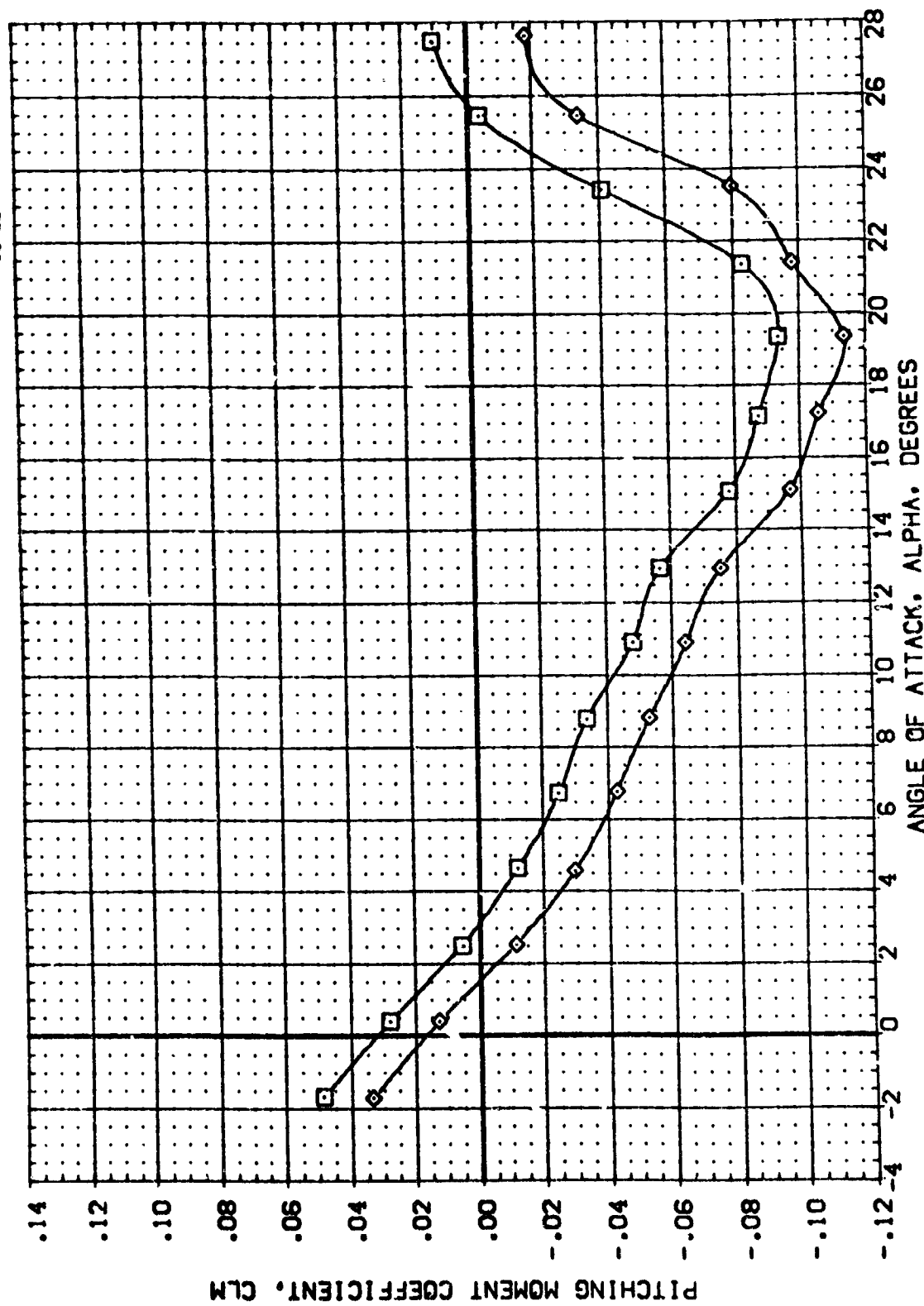


FIG. 11 BODY FLAP EFFECT

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOONK	RUDDER	REFERENCE INFORMATION
(R8T010)	AVES 66-706 0A13 810 CS D7 M3 V87E18 V5R5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(R8T004)	AVES 66-706 0A13 810 CS D7 M3 F4 V87E18 V5R5	.000	.000	54.500	.000	LREF 474.8000 IN.
(R8T012)	AVES 66-706 0A13 810 CS D7 M3 F4 V87E18 V5R5	.000	.000	54.500	.000	BREF 536.6600 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

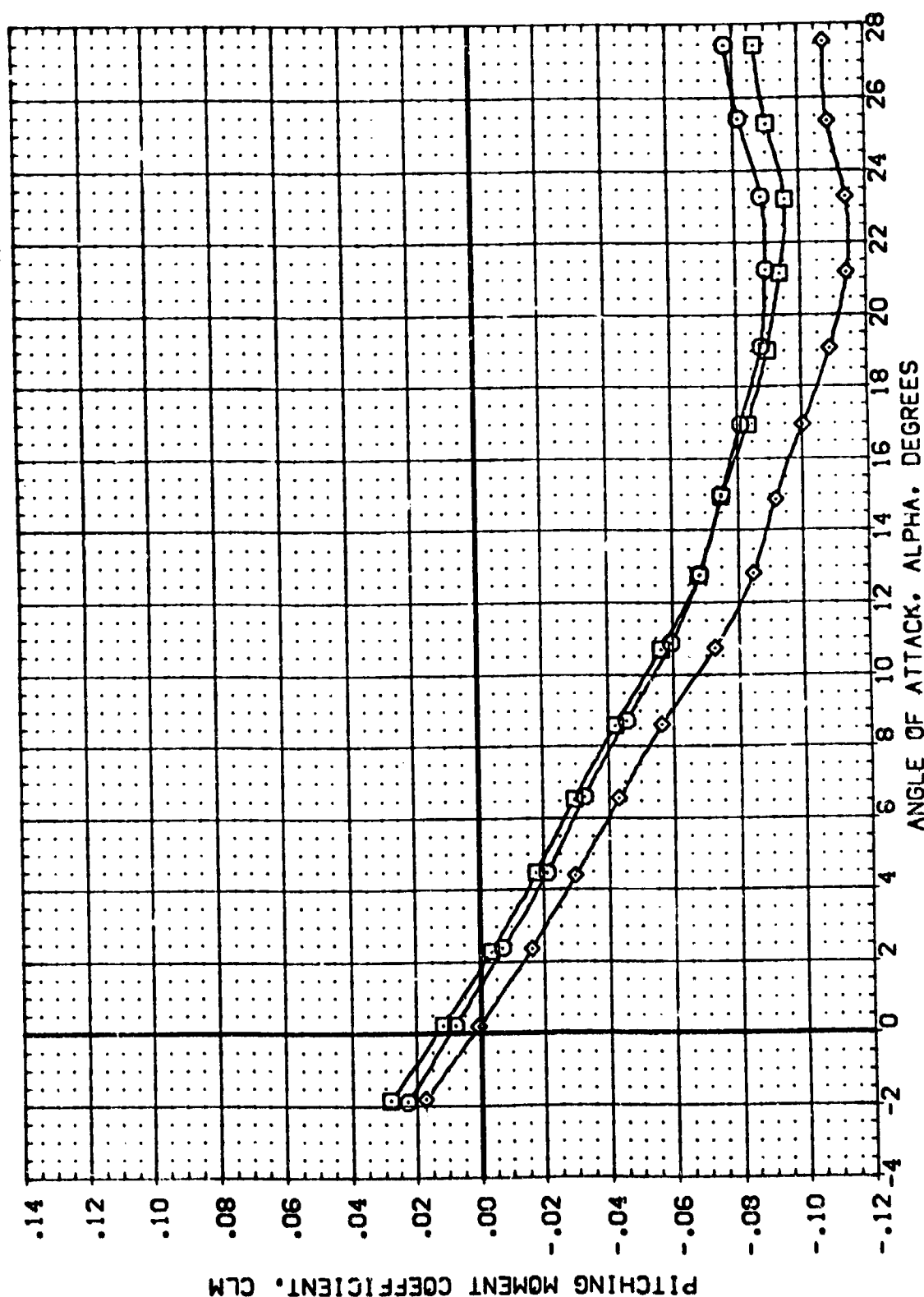


FIG. 11 BODY FLAP EFFECT

(DJMACH = 1.50)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(R8T010)	AKES 66-706 OA43 B10 CS D7 M3 V87E18 V5K5		.000	54.900	.000	SREF 2690.0000 SQ.FT.
(R8T004)	AKES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(R8T012)	AKES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	.000	.000	54.900	.000	BREF 938.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF .0000 IN.
						SCALE 400.0000
						SCALE .0150

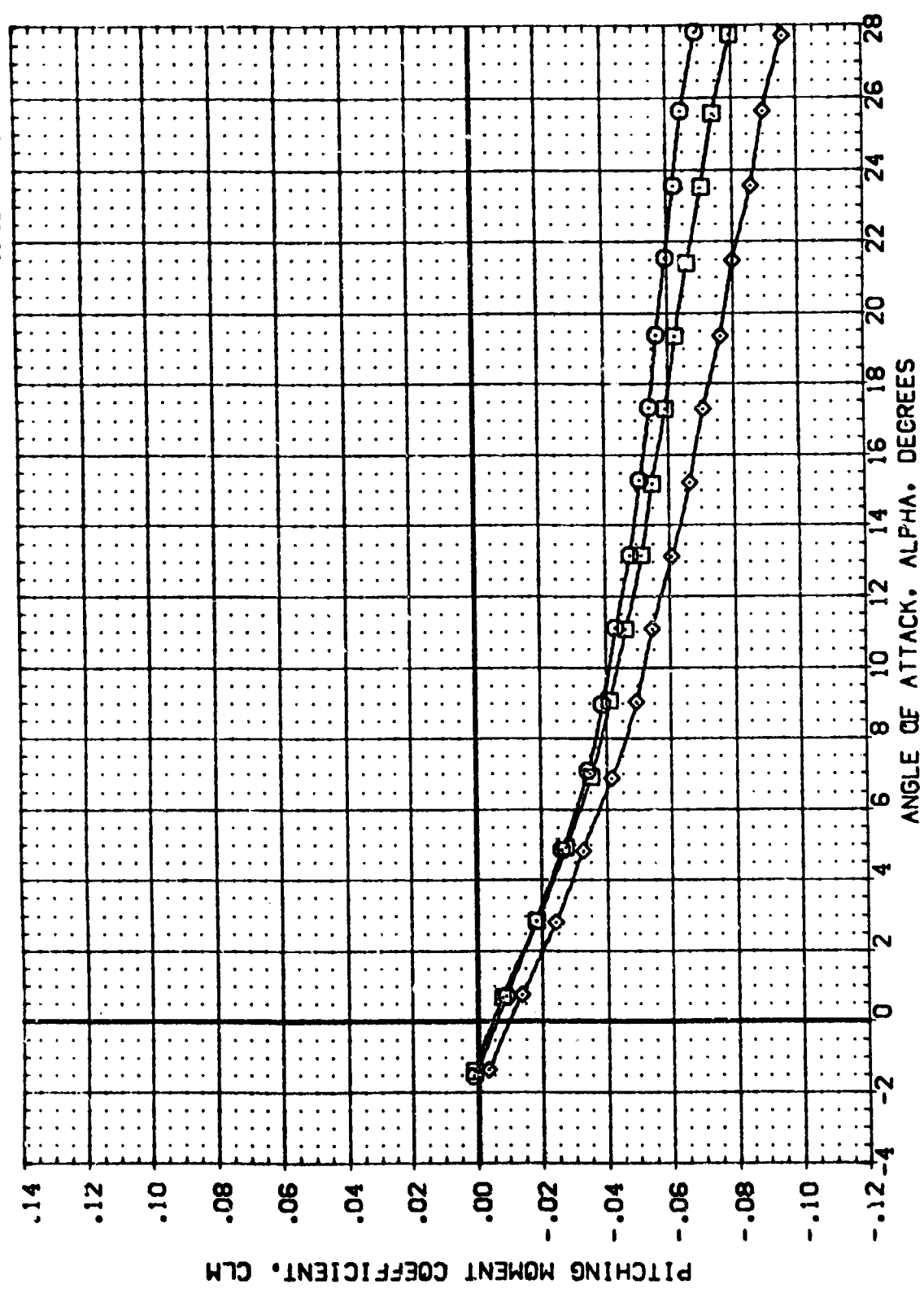


FIG. 11 BODY FLAP EFFECT

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	800FLP	ELEVON	SPORX	RUDDER	REFERENCE INFORMATION
(BBT010)	DATA NOT AVAILABLE					SREF 2630.0000 99.FT.
(BBT004)	AXES 66-706 0443 B10 CS D7 M3 F4 V87E10 VSRS	-14.200	.000	54.900	.000	LREF 474.8000 IN.
(BBT012)	AXES 66-706 0443 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	54.900	.000	BREF 936.6000 IN.
						YPRP 1103.2400 IN.
						ZPRP 400.0000 IN.
						SCALE .0150 IN.

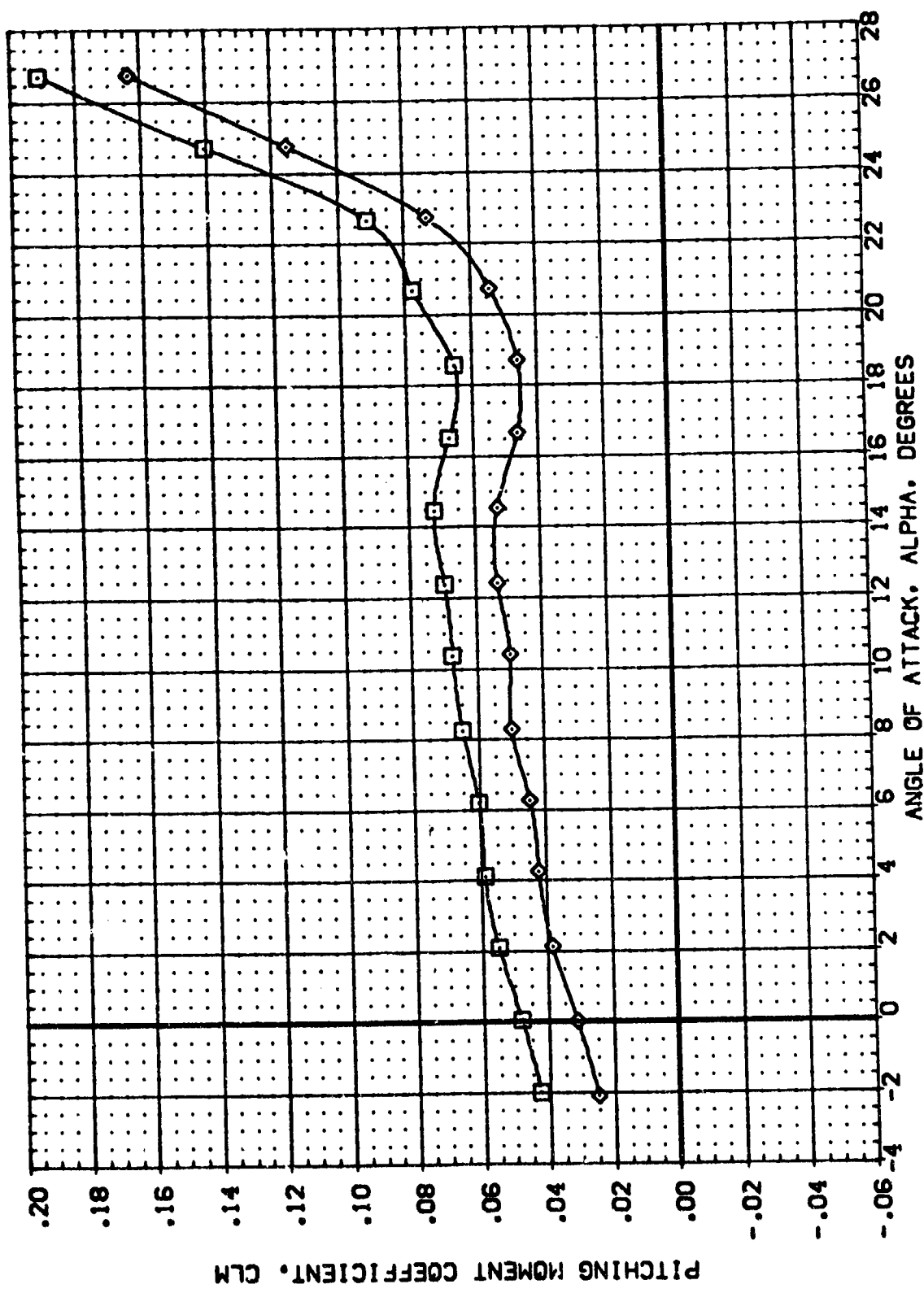


FIG. 11 BODY FLAP EFFECT (AFT C.G.)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDWRK	FLDGR	REFERENCE INFORMATION
(BBT010)	DATA NOT AVAILABLE					SREF 2630.0000 SQ.FT.
(BBT004)	AMES 66-706 OA13 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	54.500	.000	LREF 474.8000 IN.
(BBT012)	AMES 66-706 OA13 B10 CS D7 H3 F4 V87E18 V5K5	.000	.000	54.500	.000	SREF 936.8000 IN.
						ZREF 1103.2400 IN.
						ZREF 400.0000 IN.
						ZREF .0150 IN.
						SCALE

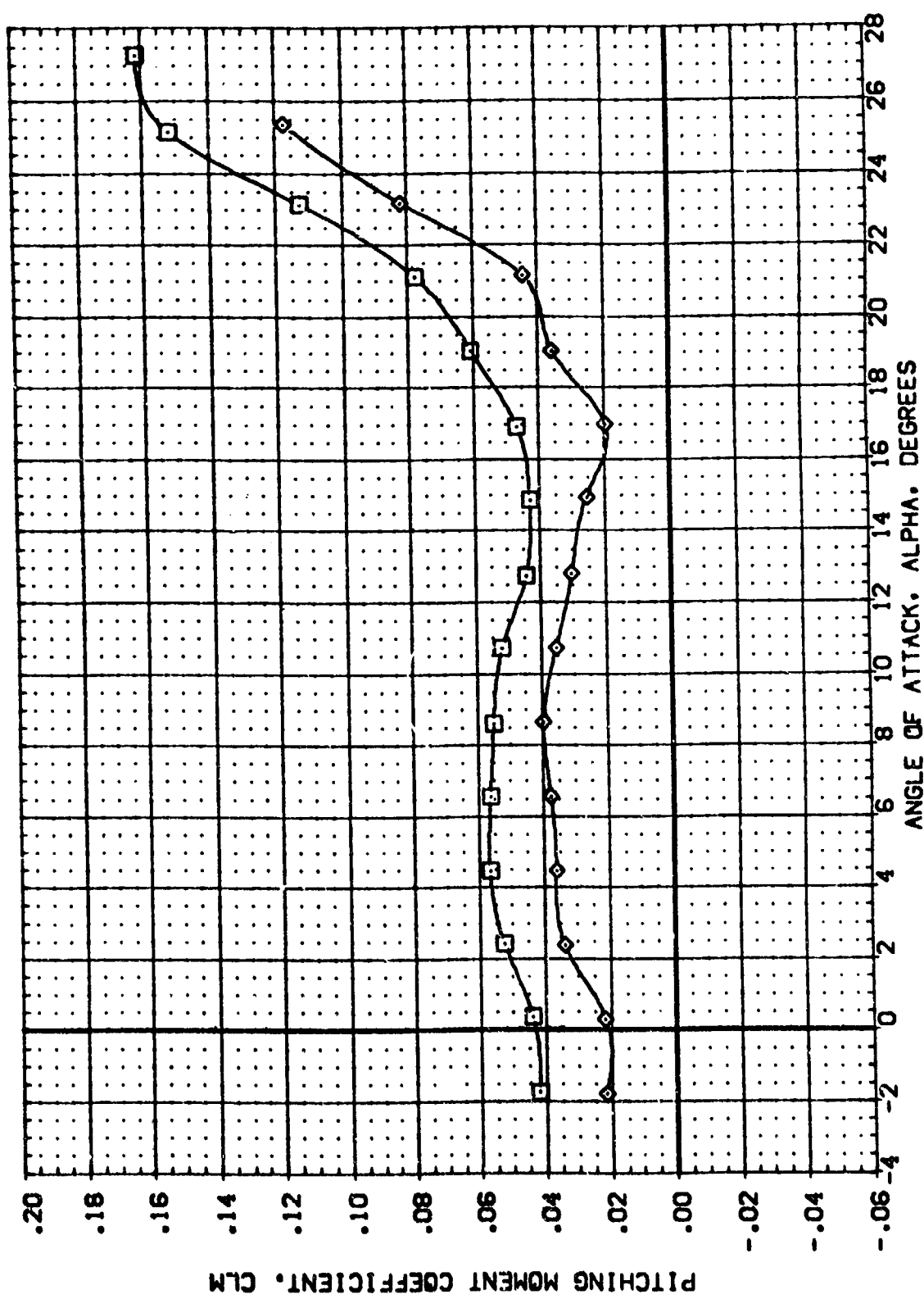
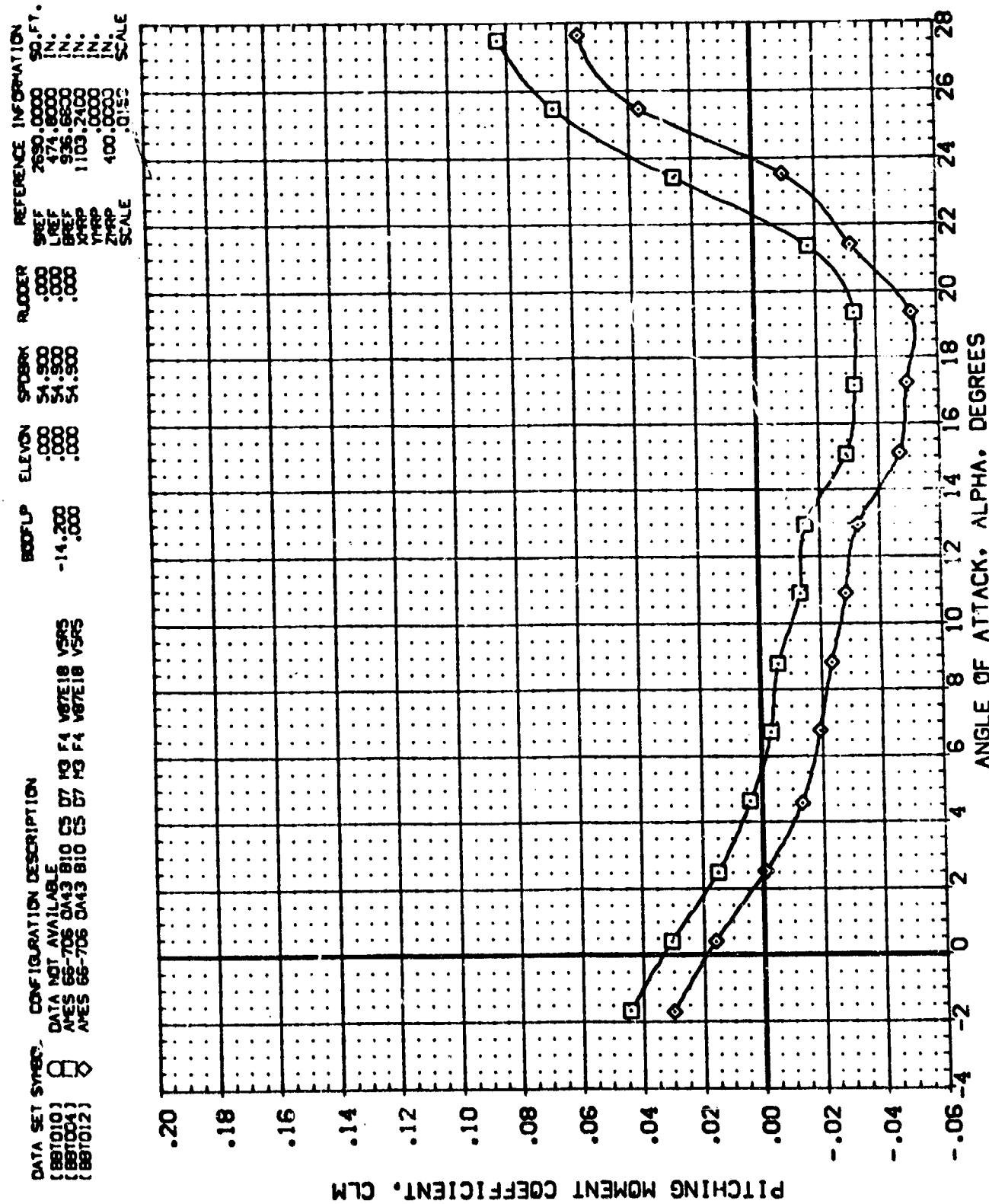


FIG. 11 BODY FLAP EFFECT (AFT C.G.)

(B)MACH = .91



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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDBRK	RUDER	REFERENCE INFORMATION
(88T010)	AMES 66-706 0A13 810 CS D7 M3		.000	\$4.500	.000	SREF 2680.0000 SQ.FT.
(88T004)	AMES 66-706 0A13 810 CS D7 M3	-14.200	.000	\$4.500	.000	LREF 474.8000 IN.
(88T012)	AMES 66-706 0A13 810 CS D7 M3	.000	.000	\$4.500	.000	BREF 336.8000 IN.
						XPRP 1103.2400 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE .0150

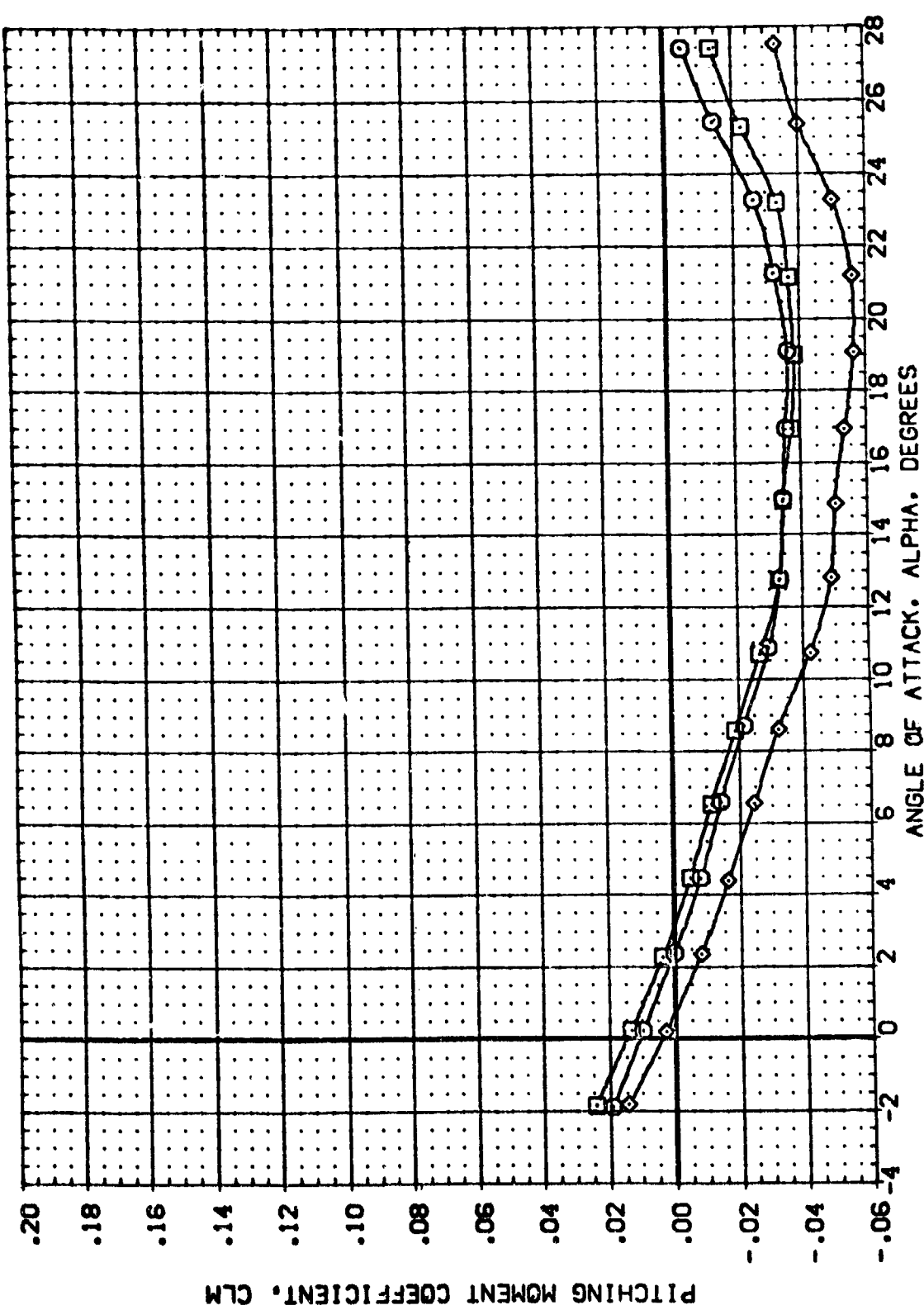


FIG. 11 BODY FLAP EFFECT (AFT C.G.)

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPUSBK	RUDDER	REFERENCE INFORMATION
(88T01C)	AVES 66-70S CM43 B10 CS D7 M3	-14.200	.000	54.900	.000	SREF 2500.0000 SQ.FT.
(88T02C)	AVES 66-70S CM43 B10 CS D7 M3 F4	.000	.000	54.900	.000	LREF 474.8000 IN.
(88T012)	AVES 66-70S CM43 B10 CS D7 M3 F4	.000	.000	54.900	.000	BREF 536.8800 IN.
						XMRP 1103.2400 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

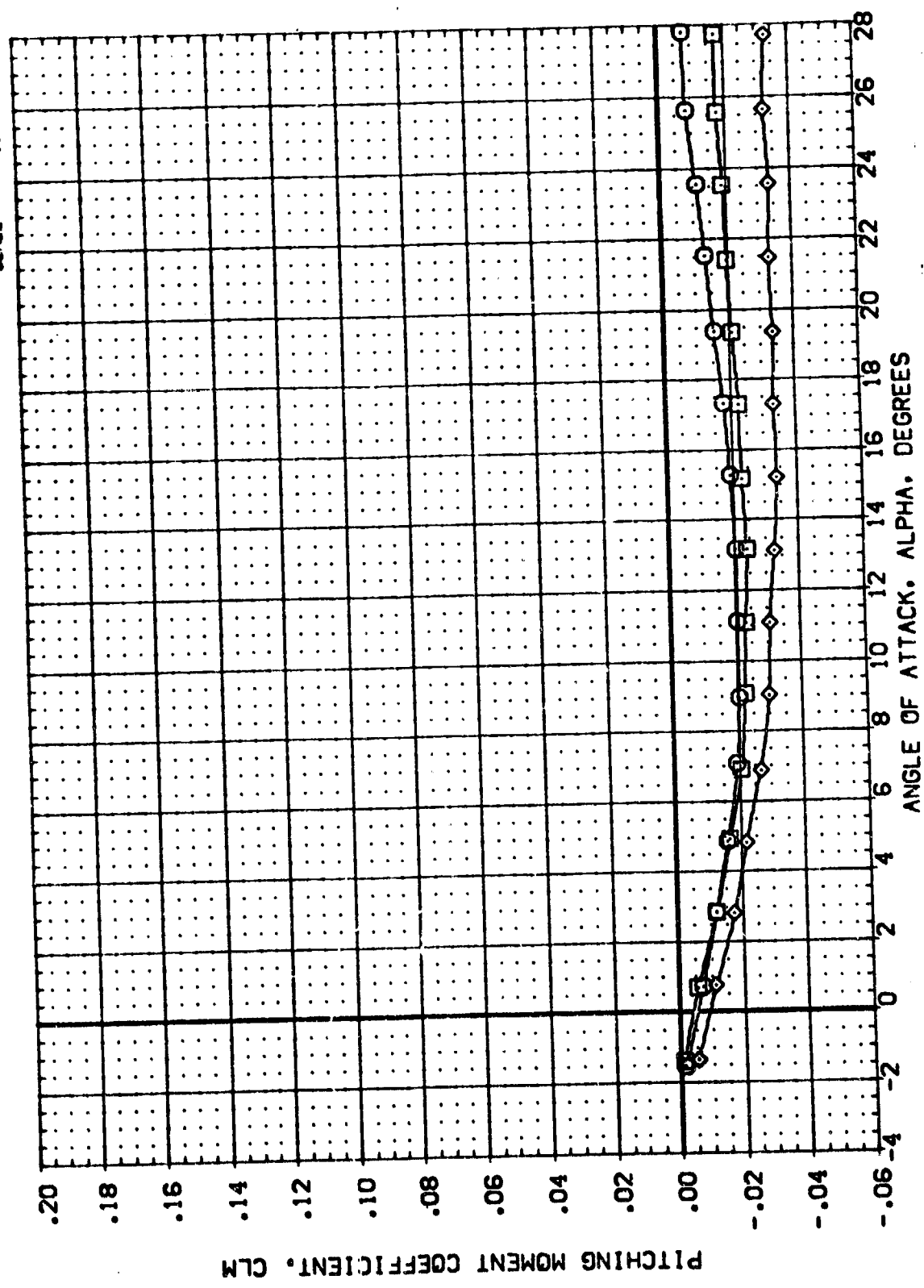


FIG. 11 BODY FLAP EFFECT (AFT C.G.)

(E)MACH = 2.00

AMES 66-706 0A43 B10 C5 D7 M3 F4 W97E18 V5R5 (UBT012)

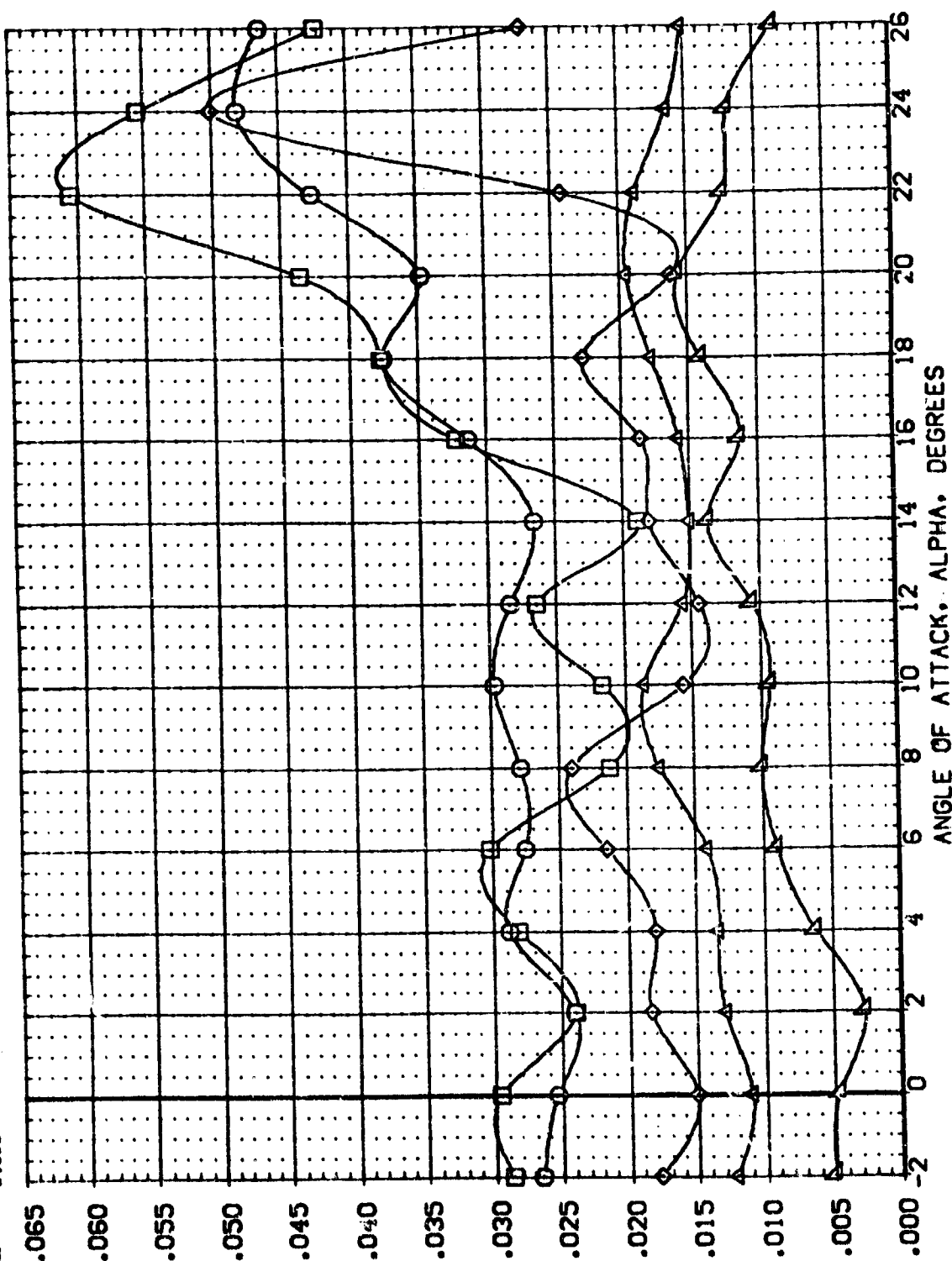


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT012)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
□	.600	.000	ELEVON	SREF 2690.0000
◇	.900	.000	SPOBRK	LREF 474.8700
△	1.200	.000	RUDER	BREF 936.8800
▽	1.500	.000	ELVN-L	XREF 1076.4800
	2.000	.000	ELVN-R	YREF .0000
				ZREF 400.0000
				SCALE .0150

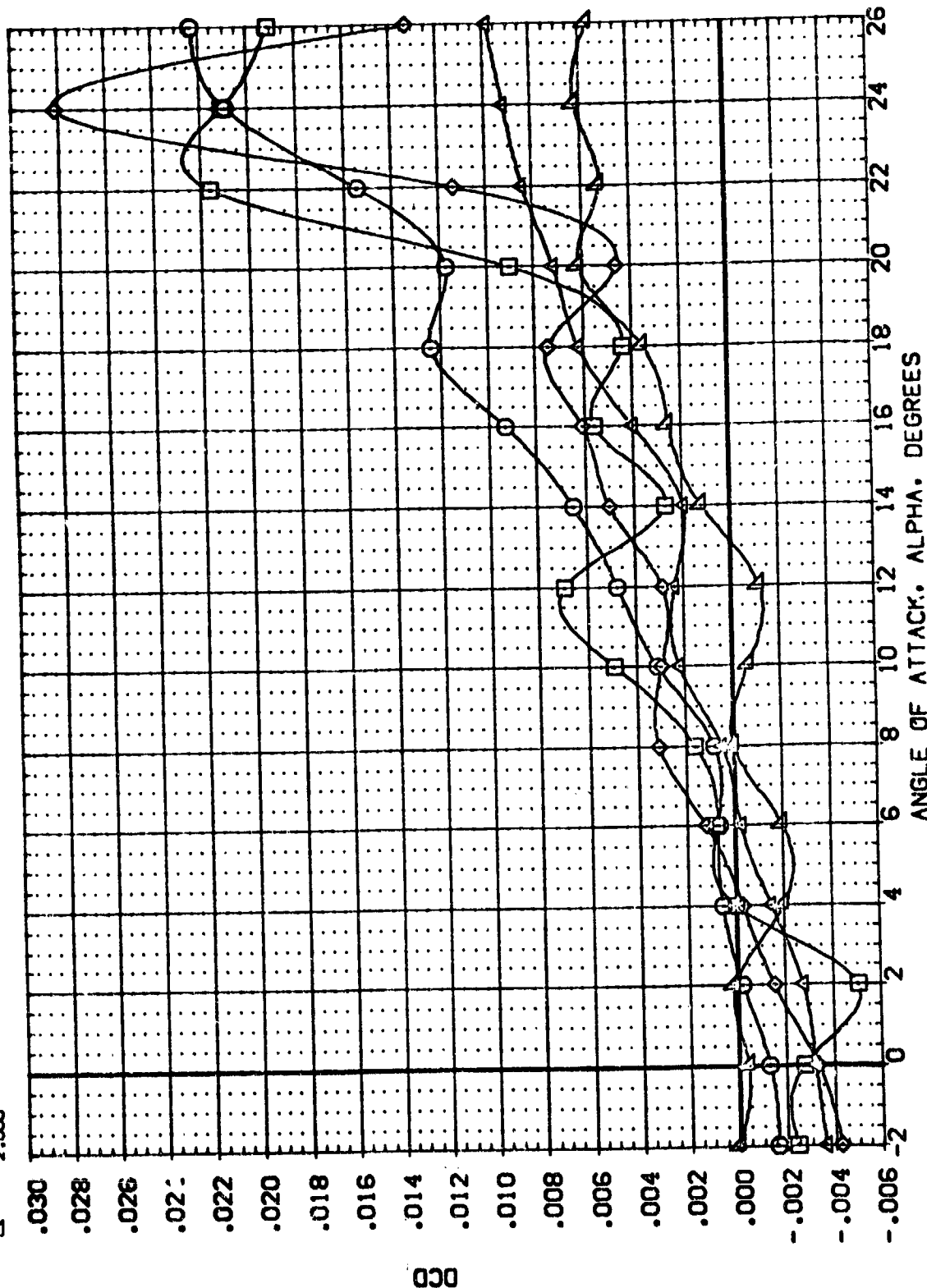


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

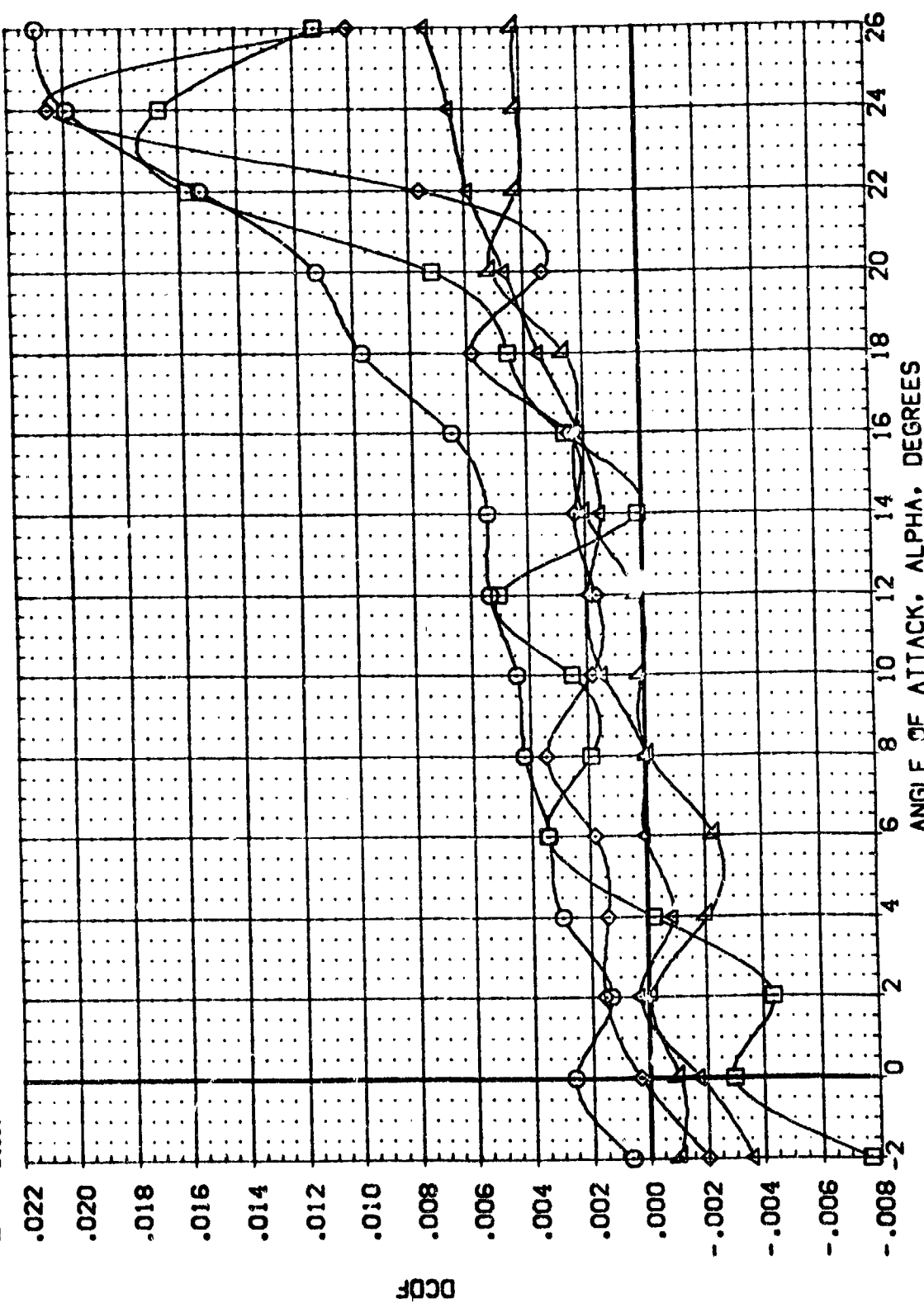
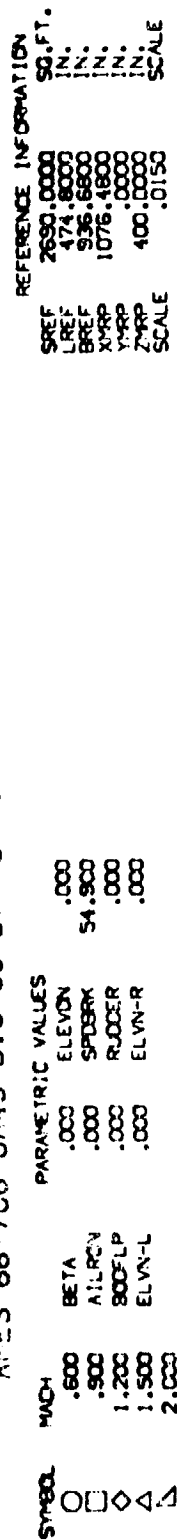


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT012)

PARAMETRIC VALUES		REFERENCE INFORMATION	
SYMBOL	MACH	SREF	2690.0000
○	.800	LREF	474.8000
□	.900	BREF	936.6800
◇	1.200	XTRP	1076.4800
△	1.500	YTRP	.0000
	2.000	ZTRP	400.0000
		SCALE	.0150

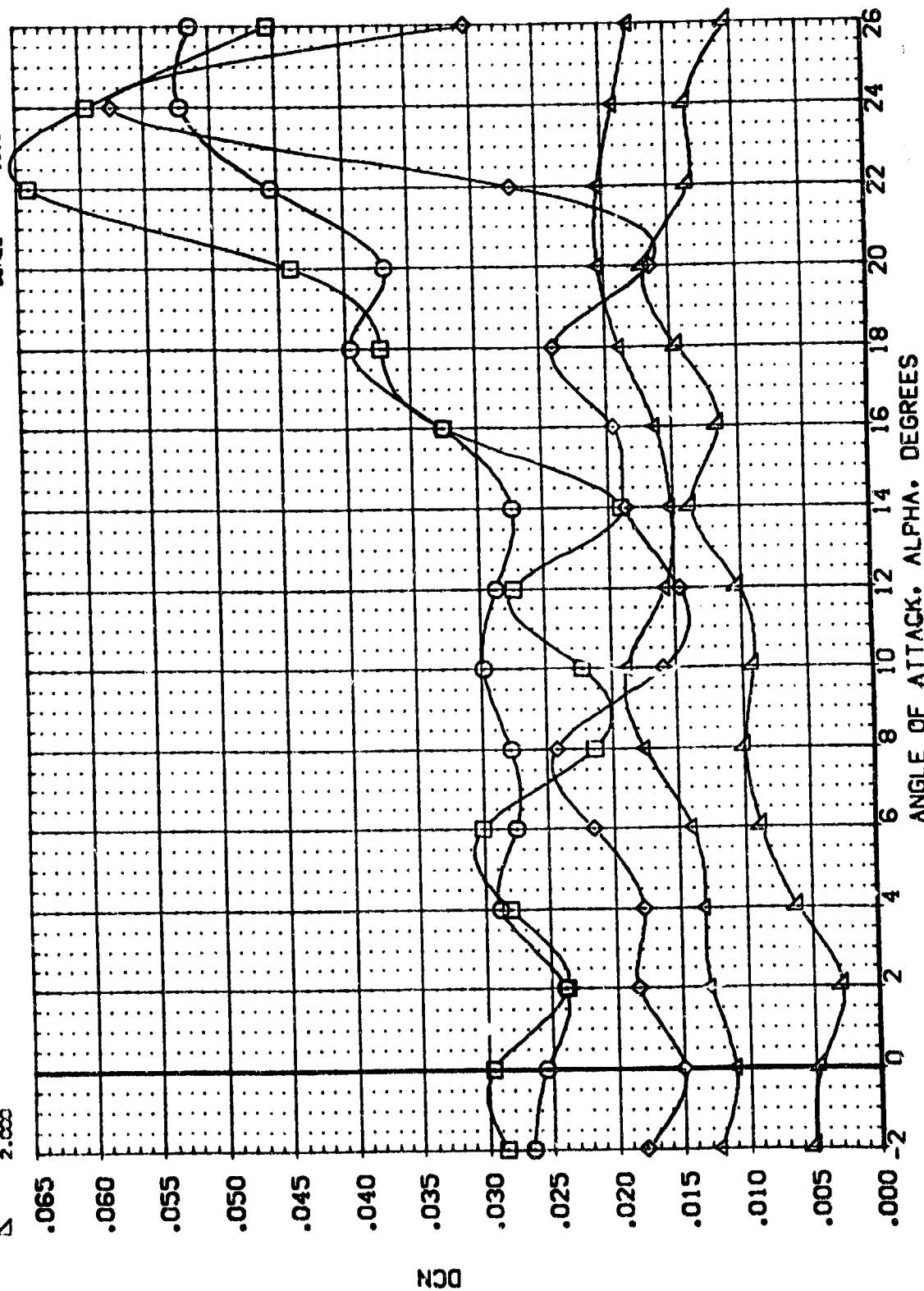


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

(UBT012)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 174.8000 IN.
 BRP 938.8600 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 BETA .000
 ALLRON 54.300
 SPOBRK .000
 RUDDER .000
 ELVN-R .000
 ELVN-L .000

MACH
 .600
 .900
 1.200
 1.500
 2.000

SYMBOL
 □
 ◇
 △
 ▽

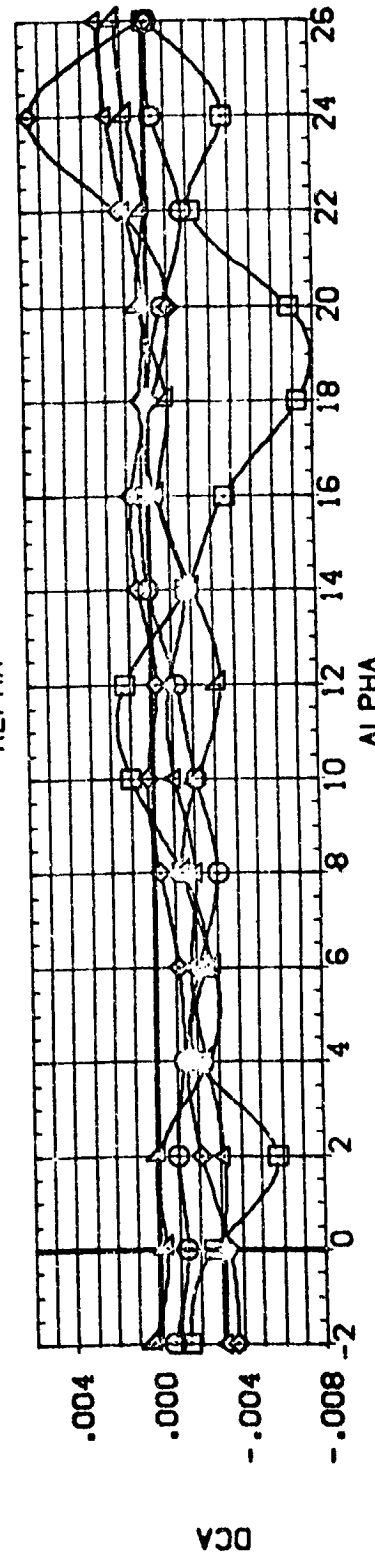
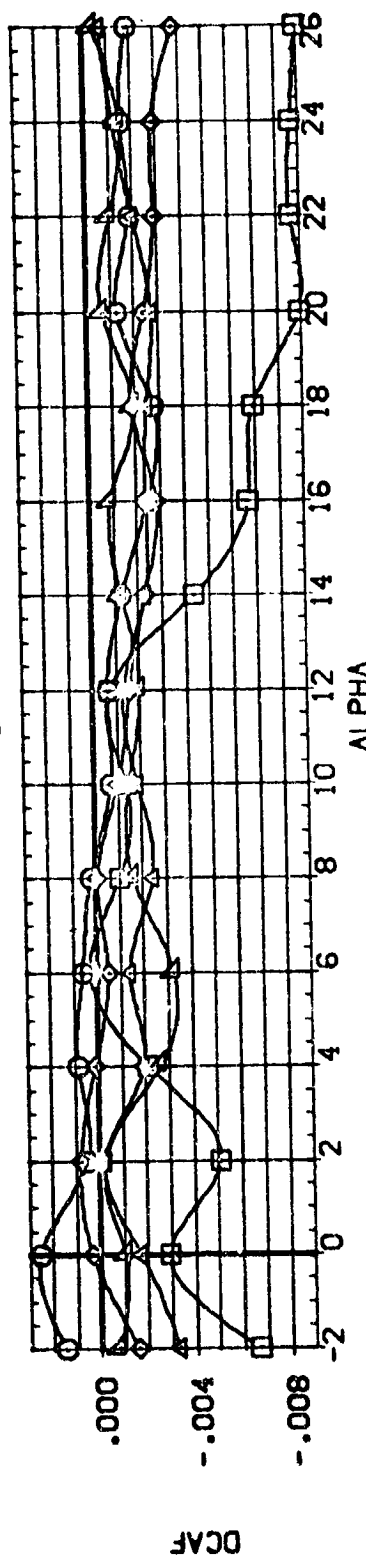
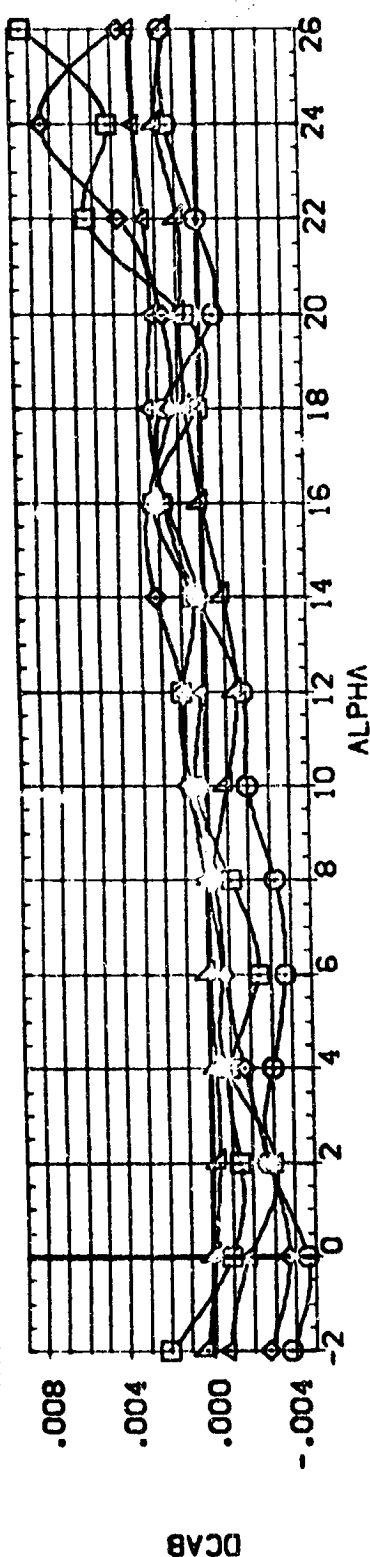


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (UBT012)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	SPOBRK	ELVN-R	SREF	2690.0000	SQ.FT.	
○	.600	.000	.000	.000	.000	LREF	474.8000	IN.	
□	.900	.000	.000	.000	.000	BREF	336.6800	IN.	
◇	1.200	.000	.000	.000	.000	MREF	1076.4800	IN.	
△	1.500	.000	.000	.000	.000	YREF	430.0000	IN.	
▽	2.000	.000	.000	.000	.000	ZREF	430.0000	IN.	
						SCALE	.0150	SCALE	

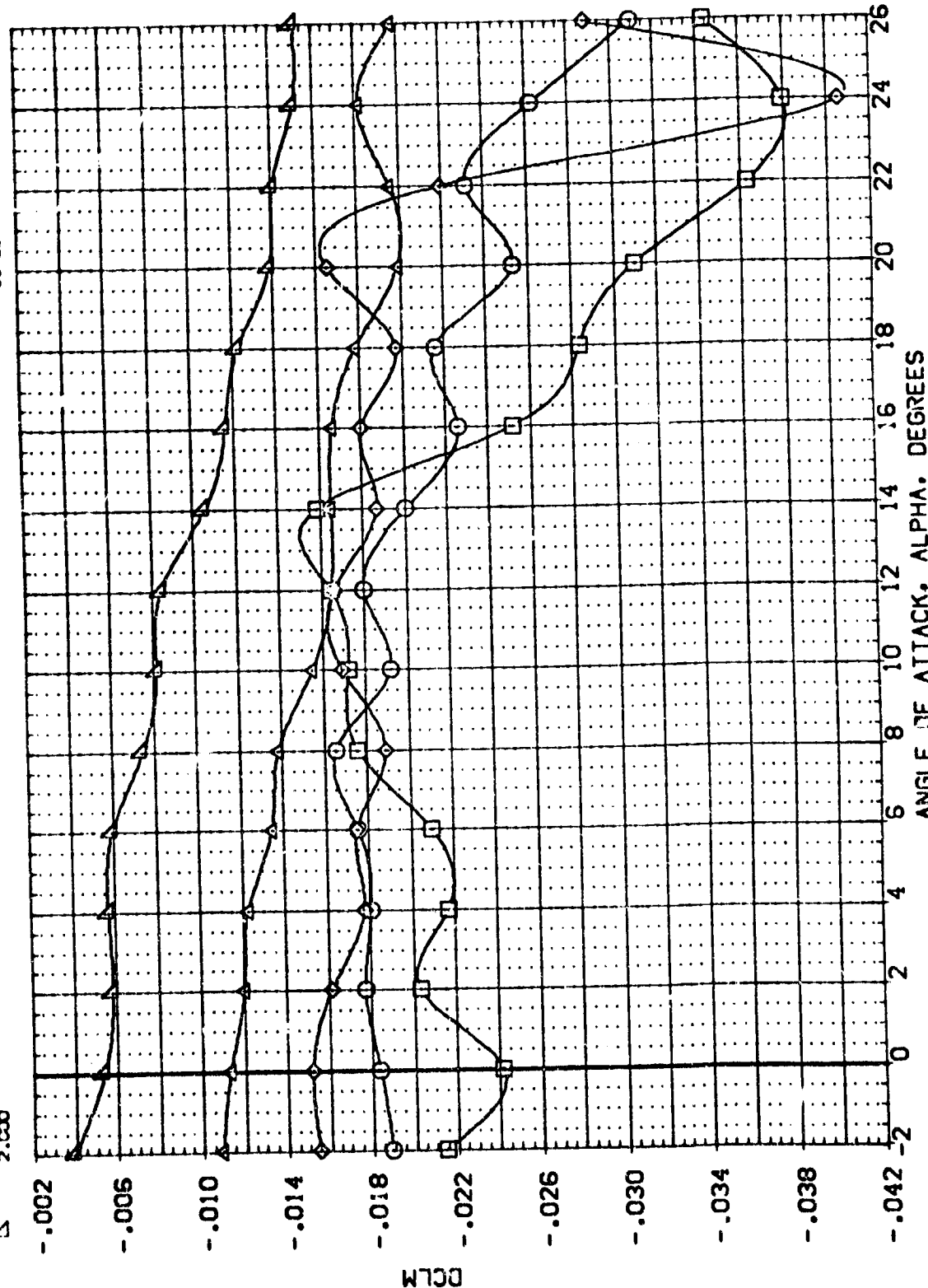


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

SYMBOL	MACH	BETA	PARAMETRIC VALUES			REFERENCE INFORMATION		
○	.600	AILRON	.000	ELEVON	.000	SREF	2630.0000	50 FT.
□	.900	BOOFLP	.000	SPDBRK	54.900	LREF	474.8000	IN.
◇	1.200	ELVN-L	.000	RUCER	.000	BREF	936.8800	IN.
△	1.500	ELVN-R	.000	ELVN-R	.000	YTRP	1103.2400	IN.
▽	2.000					ZTRP	400.0000	IN.
						SCALE	.0150	SCALE

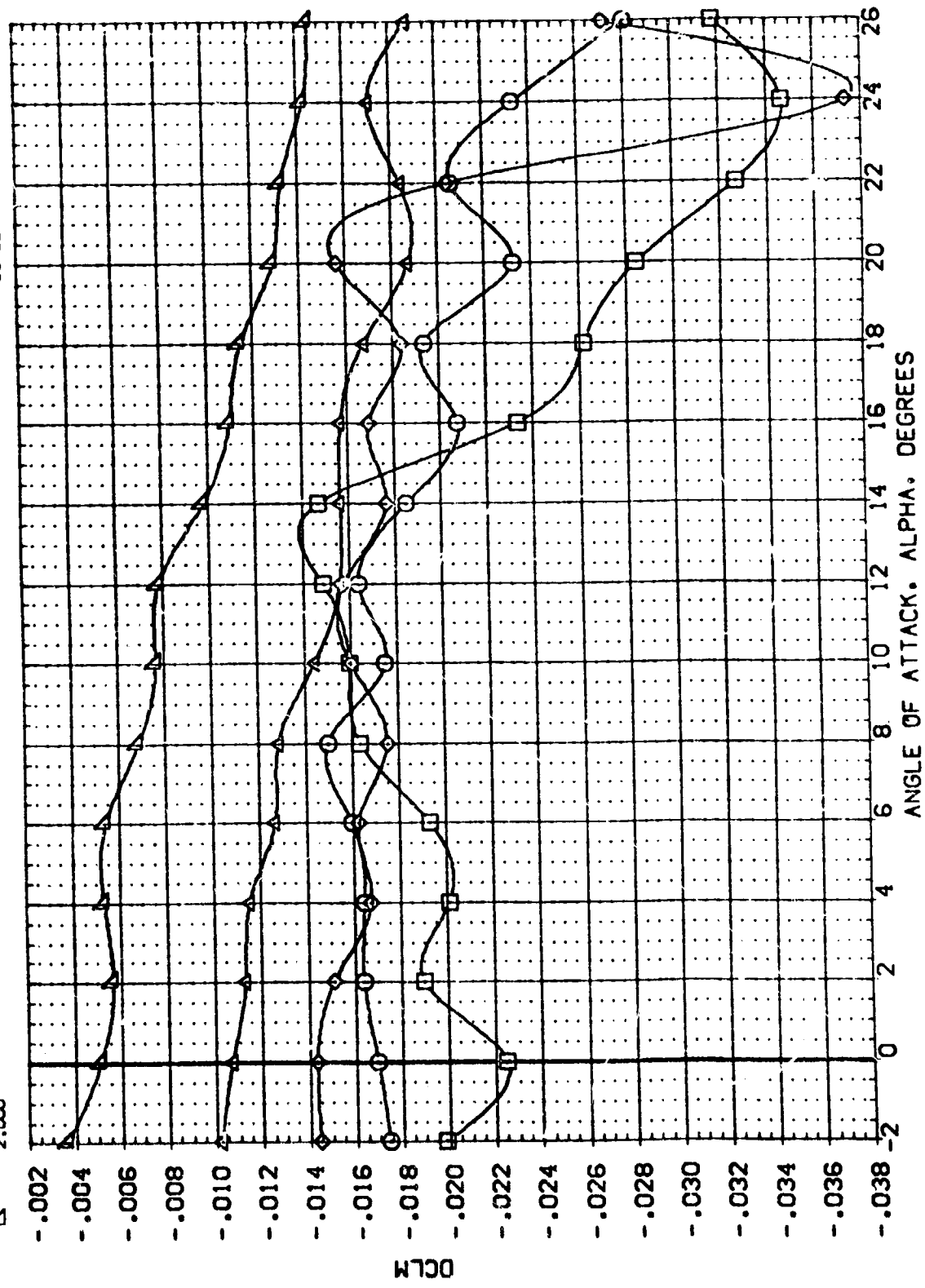


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP (AFT C.G.)



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (NB7012)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.000	.000	ELEV-N	SREF 2690.0000
□	10.000	.000	SPDRK	LREF 474.8000
◇	20.000	.000	RJDR	BREF 936.6800
		.000	ELVN-L	XMRP 1076.4800
		.000	ELVN-R	YMRP .0000
		.000		ZMRP 400.0000
				SCALE .0150

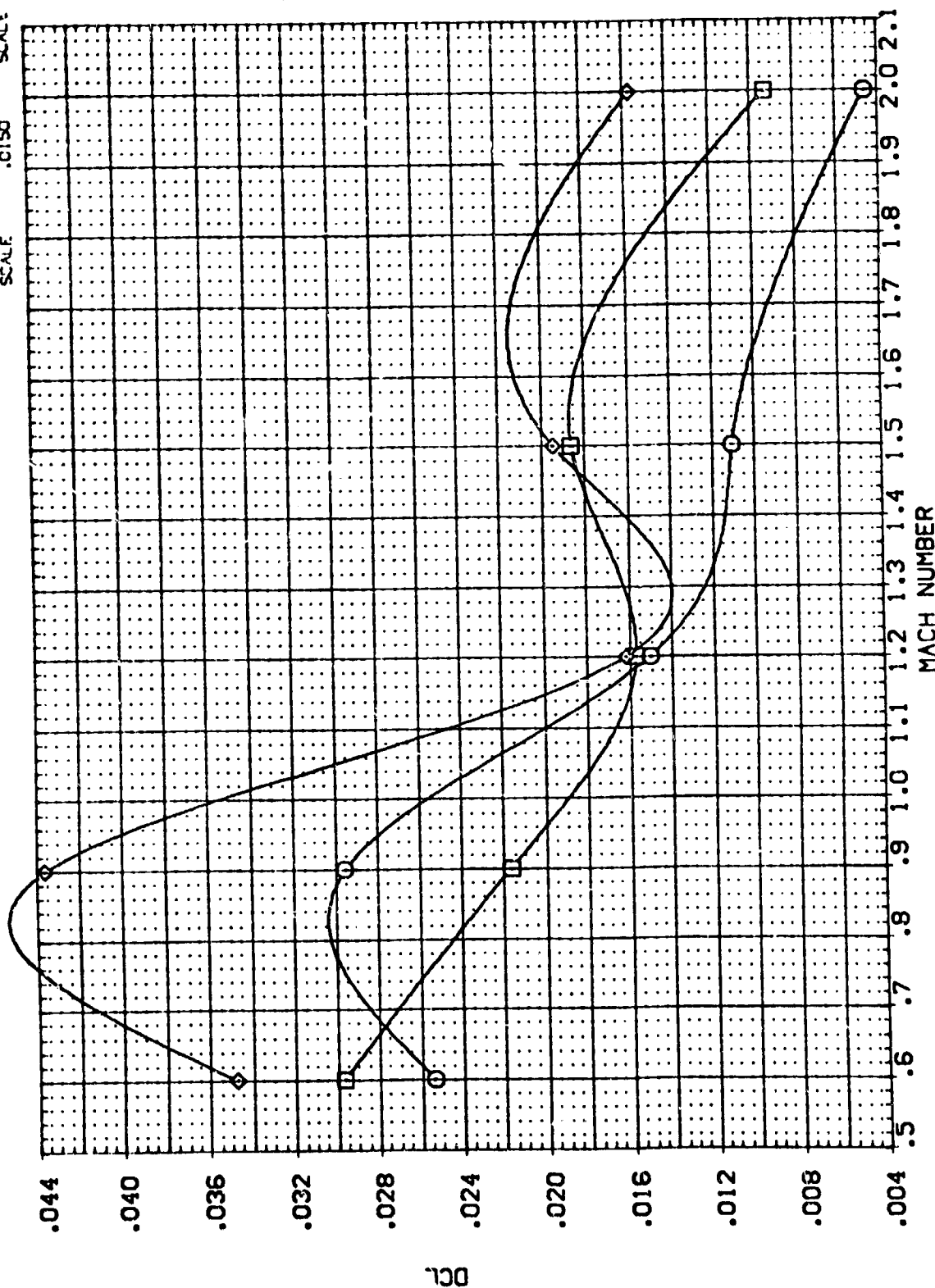


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

(N8T012)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL

ALPHA
0.000
10.000
20.000

BETA
AILRON
BOOFLP
ELVN-L

PARAMETRIC VALUES
.000 ELEVON
.000 SPOBRK
.000 RJODER
.000 ELVN-R

.000
54.900
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XPRP 1076.1800 IN.
YPRP .0000 IN.
ZPRP 400.0000 IN.
SCALE .0150

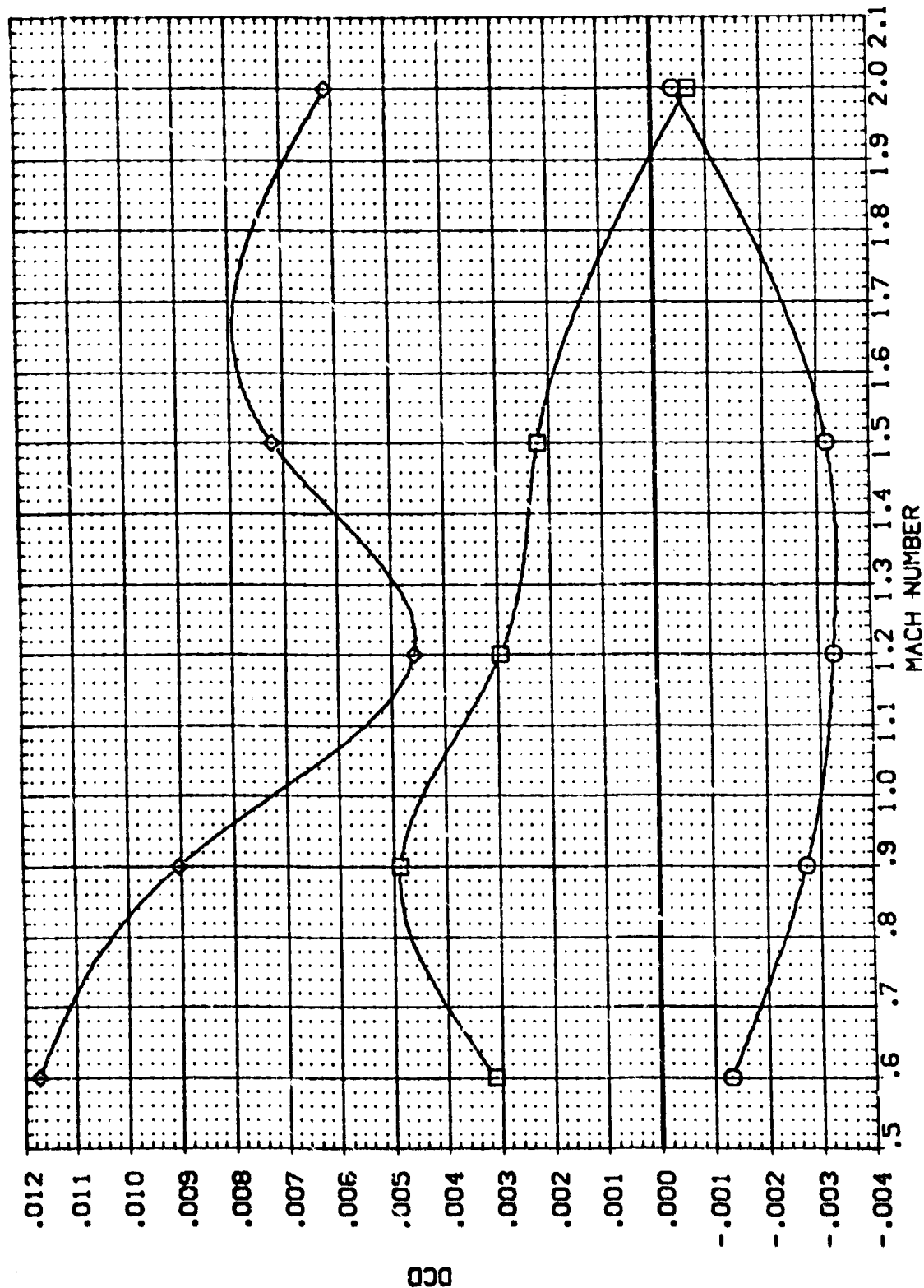


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP



(NBT012)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES

SYMBOL	ALPHA	BETA	ELEVON	.000
□	.000	SPOBRK	54.500	.000
◇	10.000	AILRON	.000	.000
	20.000	BODFLP	.000	.000
		ELVN-L	.000	.000
		ELVN-R	.000	.000

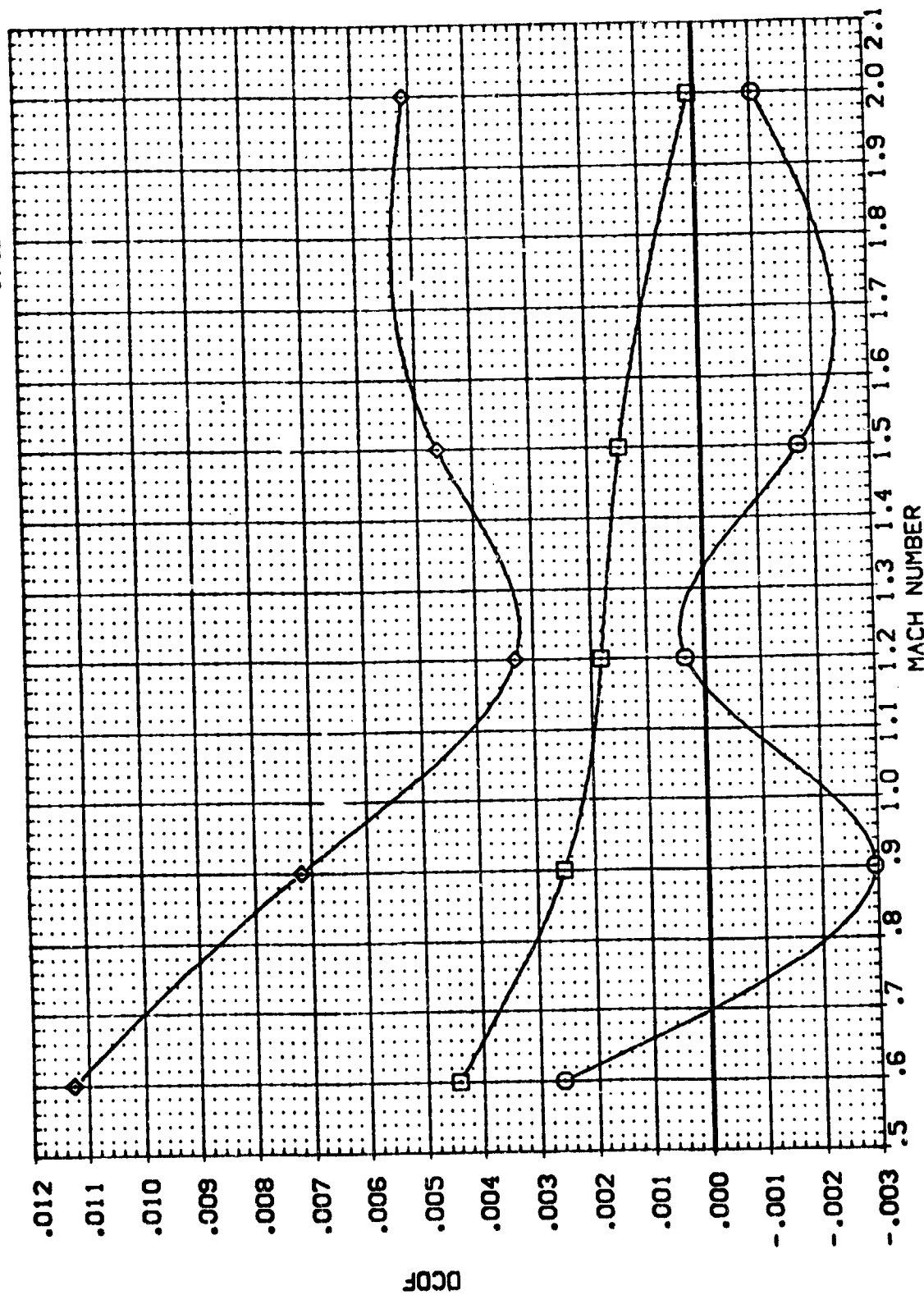


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

(NBT012)

AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL

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10.000

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AIL IN

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ECDFLP

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PARAMETRIC VALUES

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RJDER

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AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (N8T012)

PARAMETRIC VALUES		REFERENCE INFORMATION	
SYMBOL	ALPHA	SREF	2690.0000
○	BETA	LREF	474.8000
□	AILRON	BREF	936.6800
◇	BOOFLP	YREF	1076.4800
	ELVN-L	YREF	400.0000
		ZREF	400.0000
		SCALE	.0150
		SCALE	1.0000

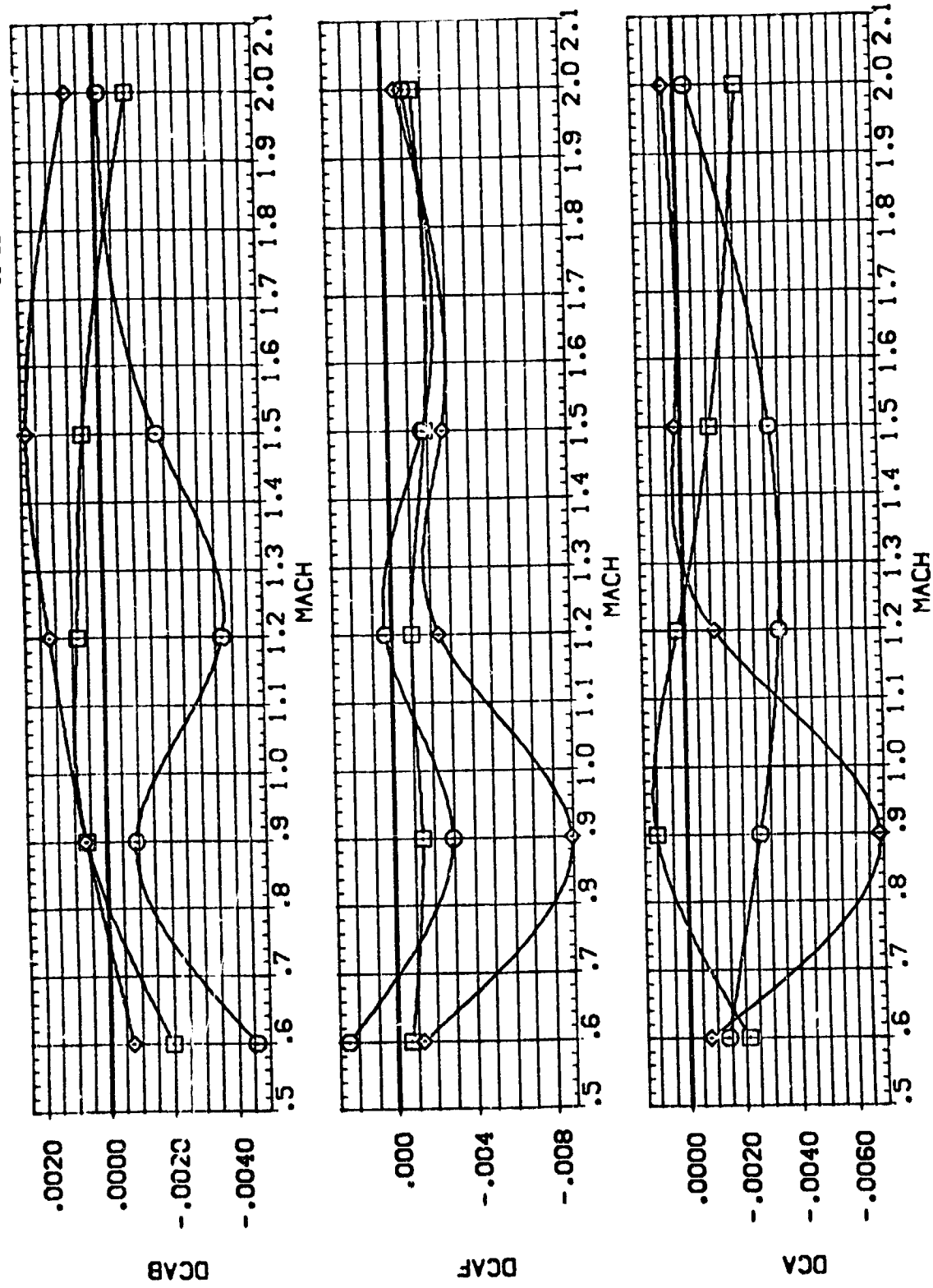


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 VSR5 (NBT012)

SYMBOL	PARAMETRIC VALUES			REFERENCE INFORMATION		
	ALPHA	BETA	ELEV	SREF	2690.0000	93.FT.
○	.000	.000	ELEVN	LREF	474.8000	IN.
□	10.000	.000	SPDRK	BREF	936.6800	IN.
◇	20.000	.000	RUDER	XPRP	1076.4800	IN.
			ELVN-L	YPRP	400.0000	IN.
			ELVN-R	ZPRP	400.0000	IN.
				SCALE	.0150	SCALE

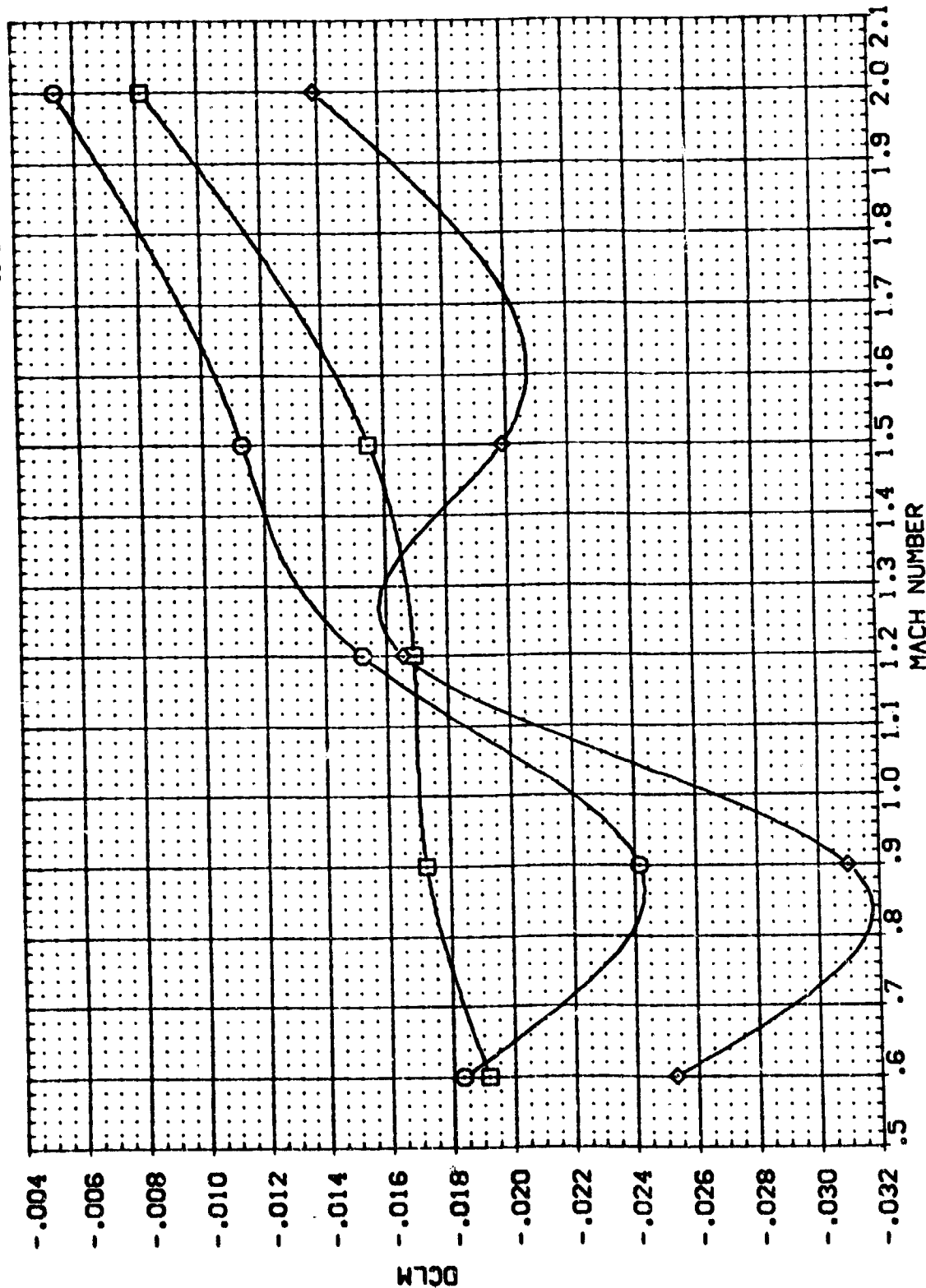


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP

AMES 66-706 GA43 B10 C5 D7 M3 F4 W87E18 V5R5 (08T012)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	SPDRK	SREF	2630.0000	SO.FT.	
○	.000	.000	.000	.000	LREF <td>474.8000</td> <td>IN.</td>	474.8000	IN.	
□	10.000	.000	.000	.000	BREF <td>936.6800</td> <td>IN.</td>	936.6800	IN.	
◇	20.000	.000	.000	.000	YMRP <td>1103.2400</td> <td>IN.</td>	1103.2400	IN.	
		ELVN-L	ELVN-R		ZMRP <td>400.0000</td> <td>IN.</td>	400.0000	IN.	
					SCALE	.0150	SCALE	

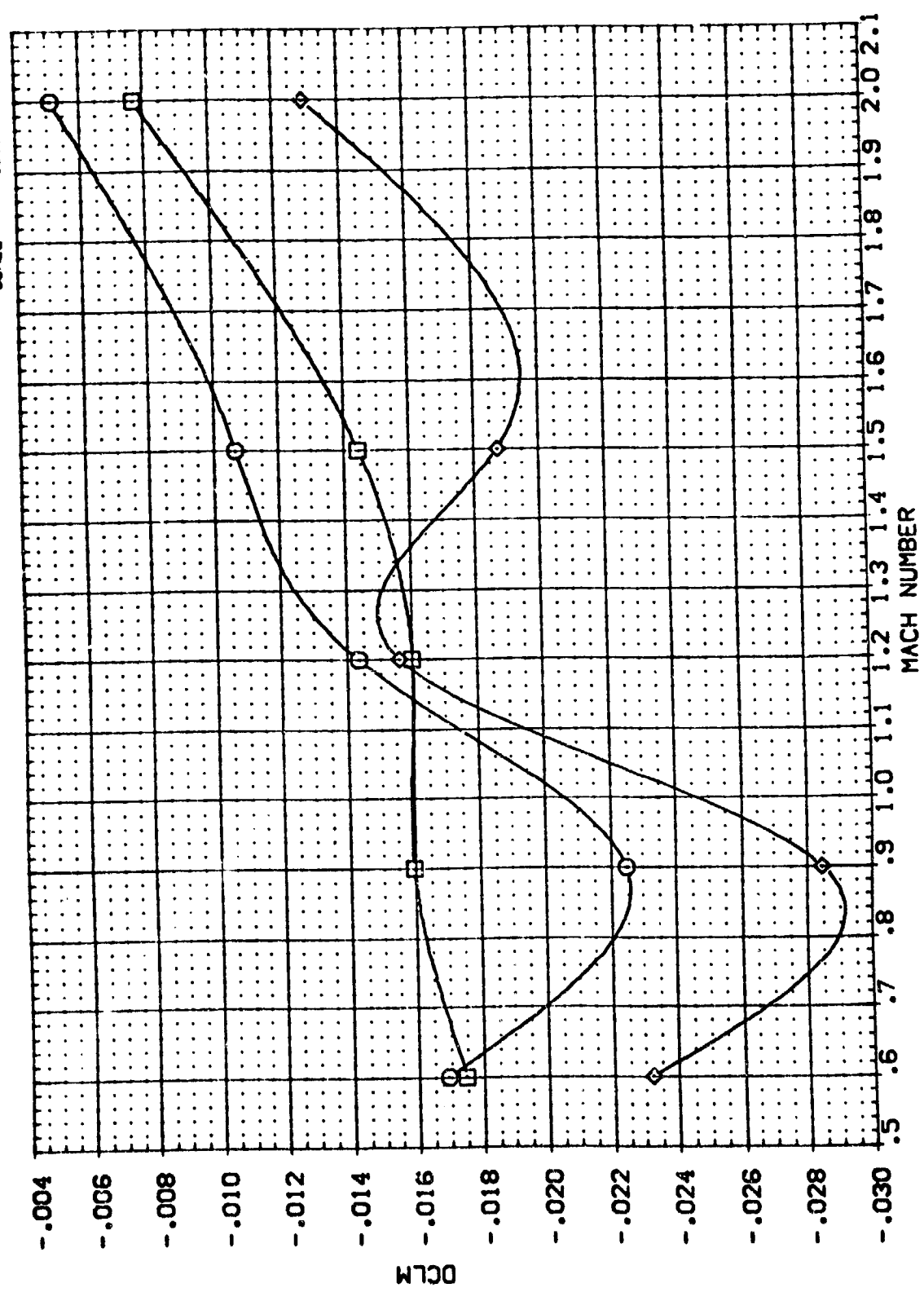


FIG. 12 INCREMENTAL EFFECT OF BODY FLAP (AFT C.G.)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON		SPDBK		RUDDER		REFERENCE INFORMATION			
(RST003)	(NGT004)	AVES 66-706	0A43	810	CS	07	F4	187E18	V5R5			SREF	2880.0000	90.FT.	
		AVES 66-706	0A43	810	CS	07	F4	187E18	V5R5			LREF	474.8000	IN.	
												BREF	598.8000	IN.	
												XTRP	1076.4500	IN.	
												YTRP	1000.0000	IN.	
												ZTRP	400.0000	IN.	
												SCALE	.0150	SCALE	

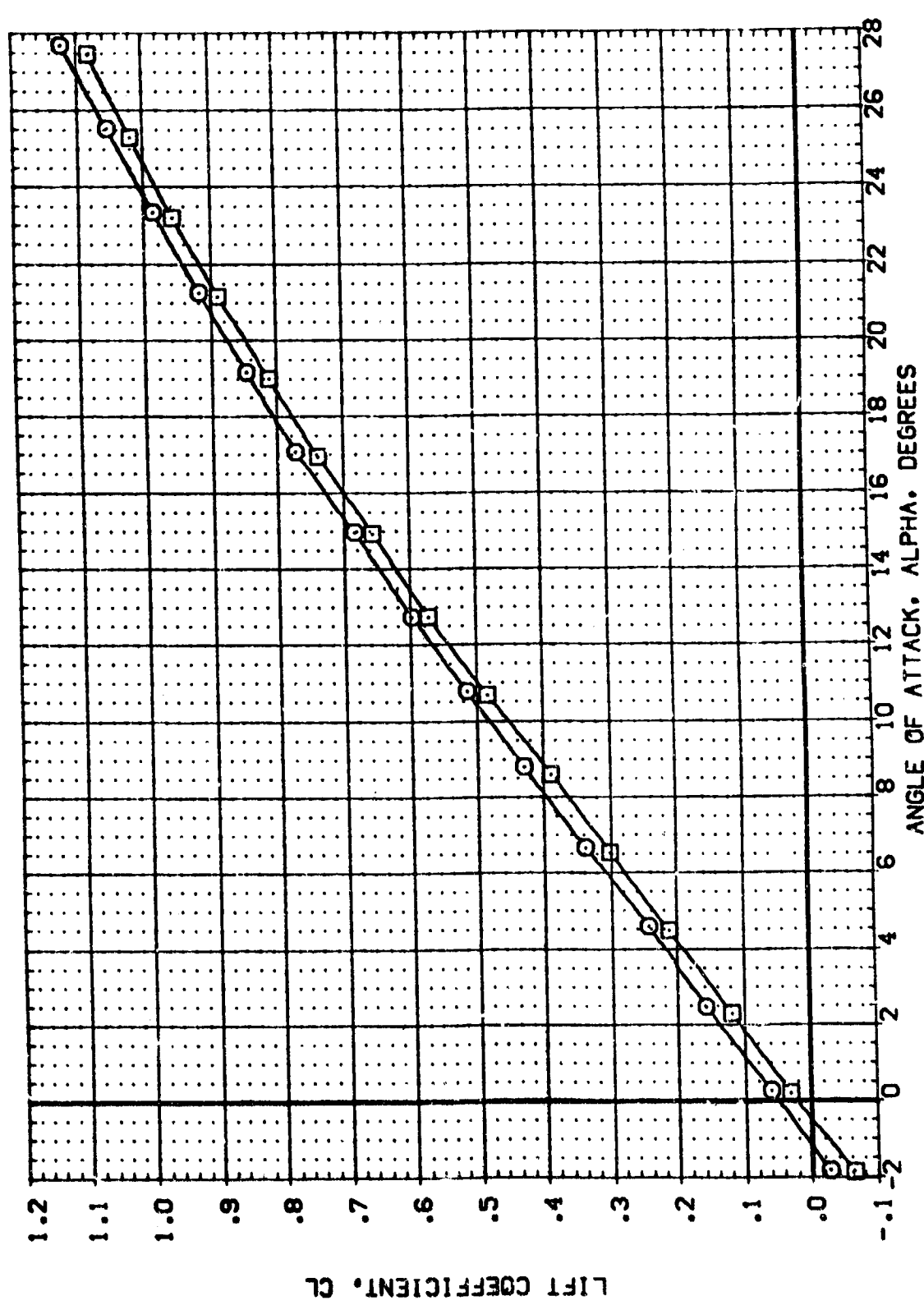


FIG. 13 OMS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL: (RBT003) (NBT004)

CONFIGURATION DESCRIPTION: AVES 66-706 CM3 B10 CS D7 F4 V87E18 VSRS
AVES 66-706 CM3 B10 CS D7 M3 F4 V87E18 VSRS

REFERENCE INFORMATION: SREF 2630.0000 SQ.FT. IN.
LREF 474.8000 IN.
BREF 936.6800 IN.
XMRP 1076.4800 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

RUDDER: .000
SPORCK: 54.500 54.500
ELEVON: .000 .000
BODYLP: -14.200 -14.200

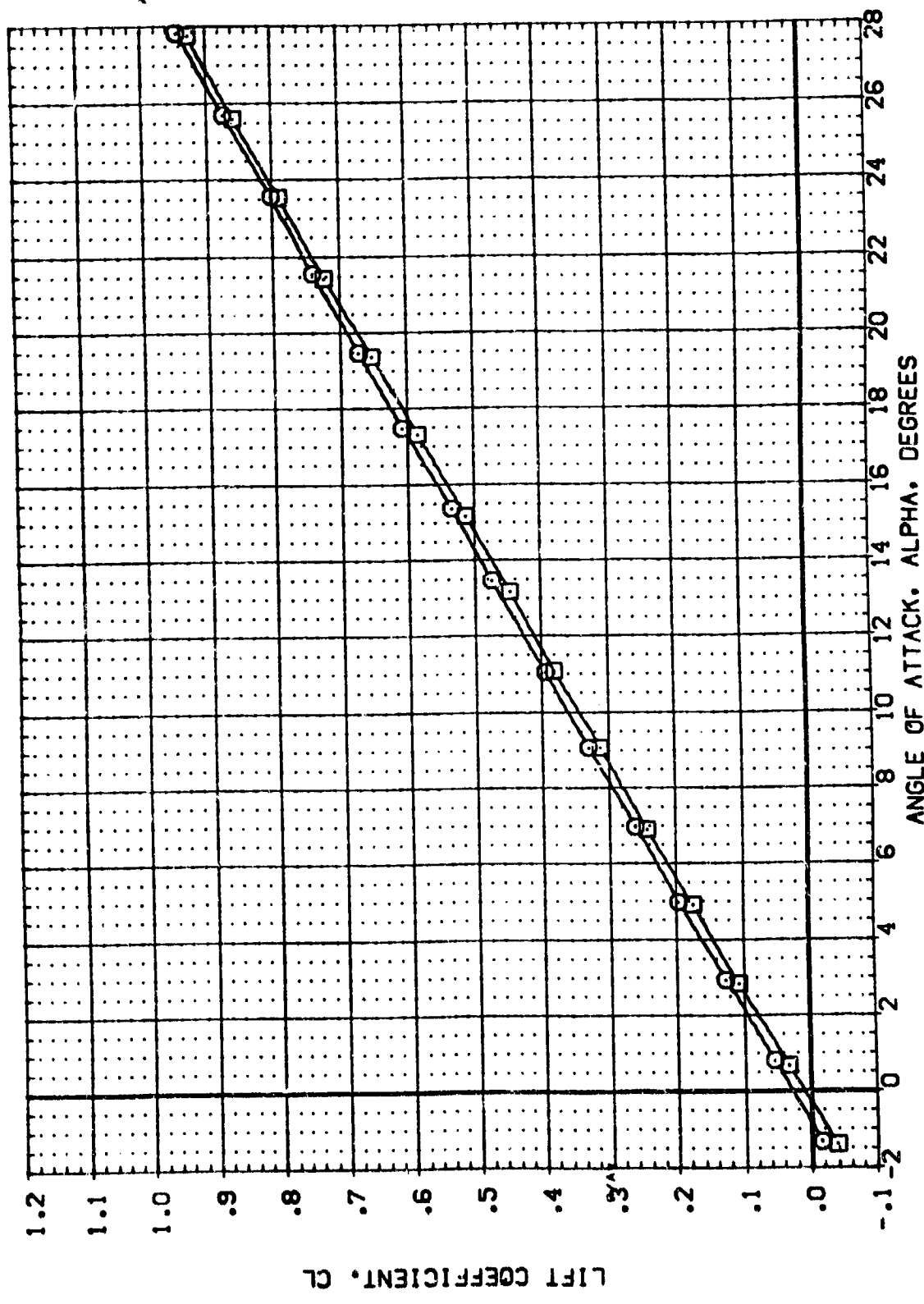


FIG. 13 QMS PODS EFFECT

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
{P87:003}		AMES 66-706 0A43 B10 CS D7		SREF 2690.0000 SQ.FT.	
{N8:004}		AMES 66-706 0A43 B10 CS D7		LREF 474.8000 IN.	
		F4 V87E18 V5R5		SREF 936.5800 IN.	
		F4 V87E18 V5R5		XPRP 1076.4800 IN.	
				YPRP .0000 IN.	
				ZPRP 400.0000 IN.	
				SCALE .0150 SCALE	

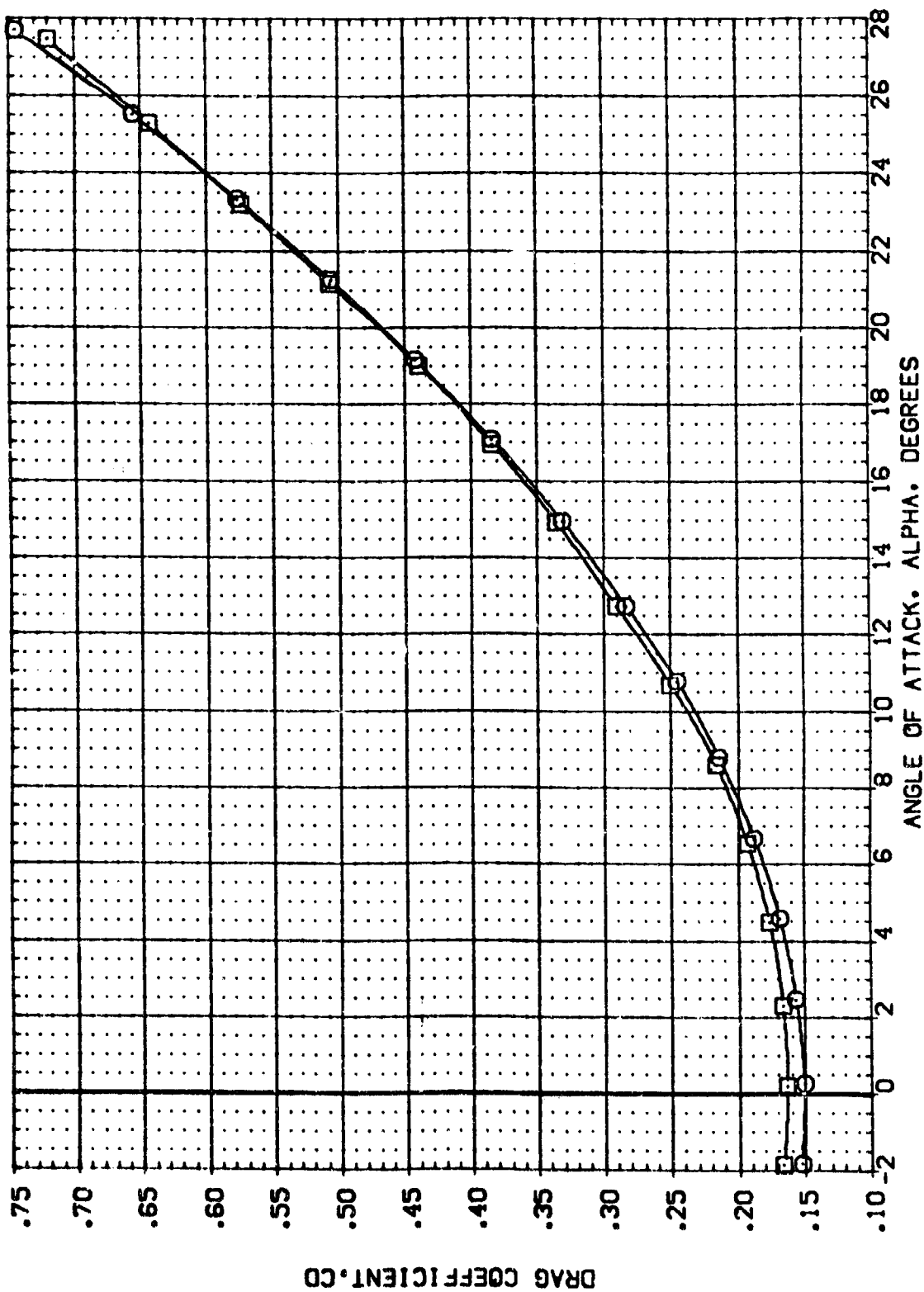
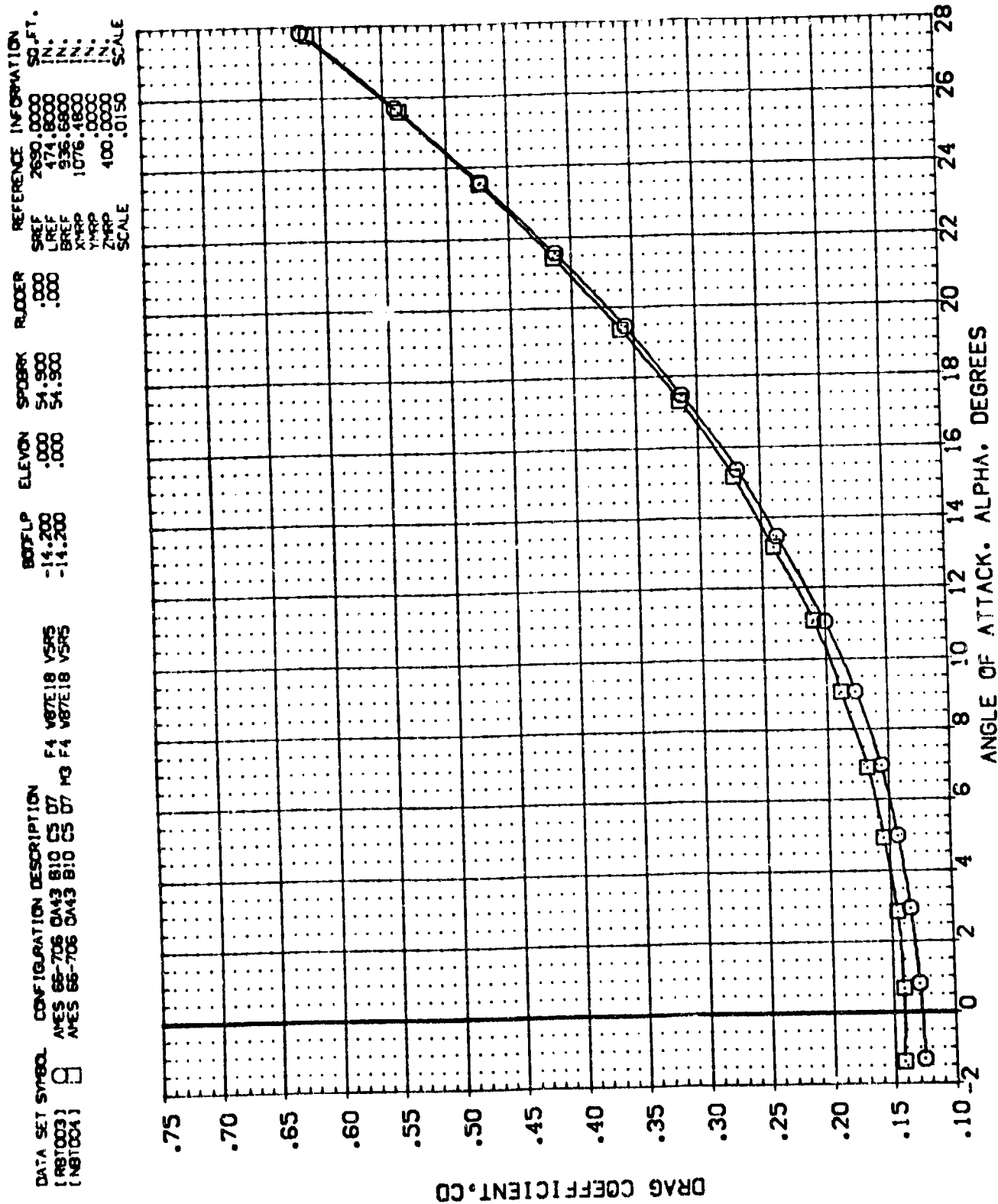


FIG. 13 OMS PODS EFFECT

(A)MACH = 1.50



(3)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BODY LP		ELEVON		SPORON		RUDDER		REFERENCE INFORMATION	
(RBT003)	(NBT004)	AVES 66-706	DA13 B10 CS 07	F4 187E18	VSR5	-14.200	.000	54.900	.000	.000	.000	SREF 2690.0000	50. FT.
		AVES 66-706	DA13 B10 CS 07	F4 187E18	VSR5	-14.200	.000	54.900	.000	.000	.000	LREF 474.8000	IN.
												BREF 936.6800	IN.
												XMRP 1076.4800	IN.
												YMRP 400.0000	IN.
												ZMRP 400.0000	IN.
												SCALE .0150	SCALE

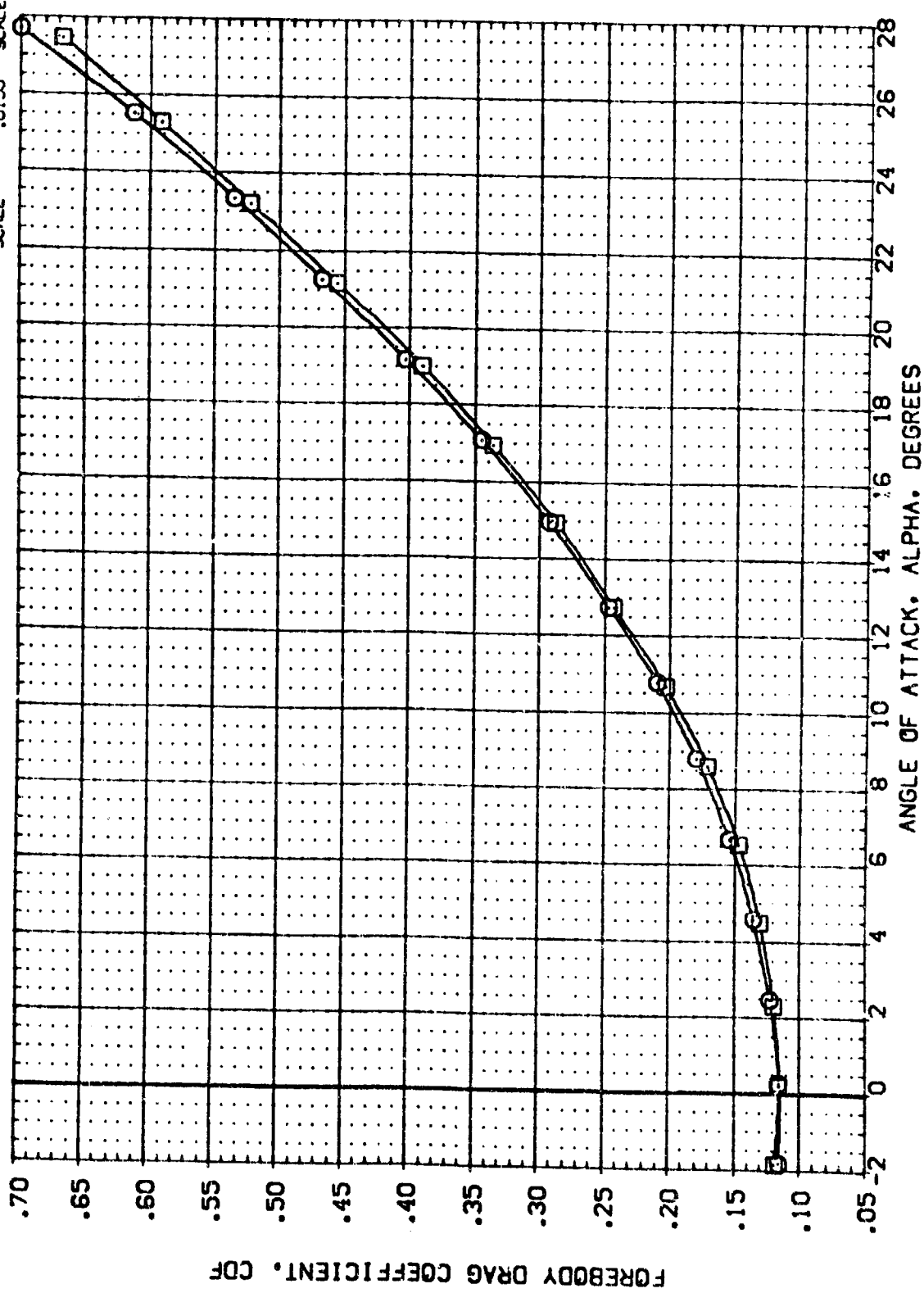


FIG. 13 0MS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPORCK		RUDDER		REFERENCE INFORMATION	
(R81003)	9	AVES 66-706	QA43 B10 CS 07	F4	V87E18 V595	-14.200	.000	54.900	.000	SREF	2690.0000
(N81004)		AVES 66-706	QA43 B10 CS 07	F4	V87E18 V595	-14.200	.000	54.900	.000	LREF	474.8000
										BREF	936.6800
										XMRP	1076.4800
										YMRP	.0000
										ZMRP	.0000
										SCALE	.0150

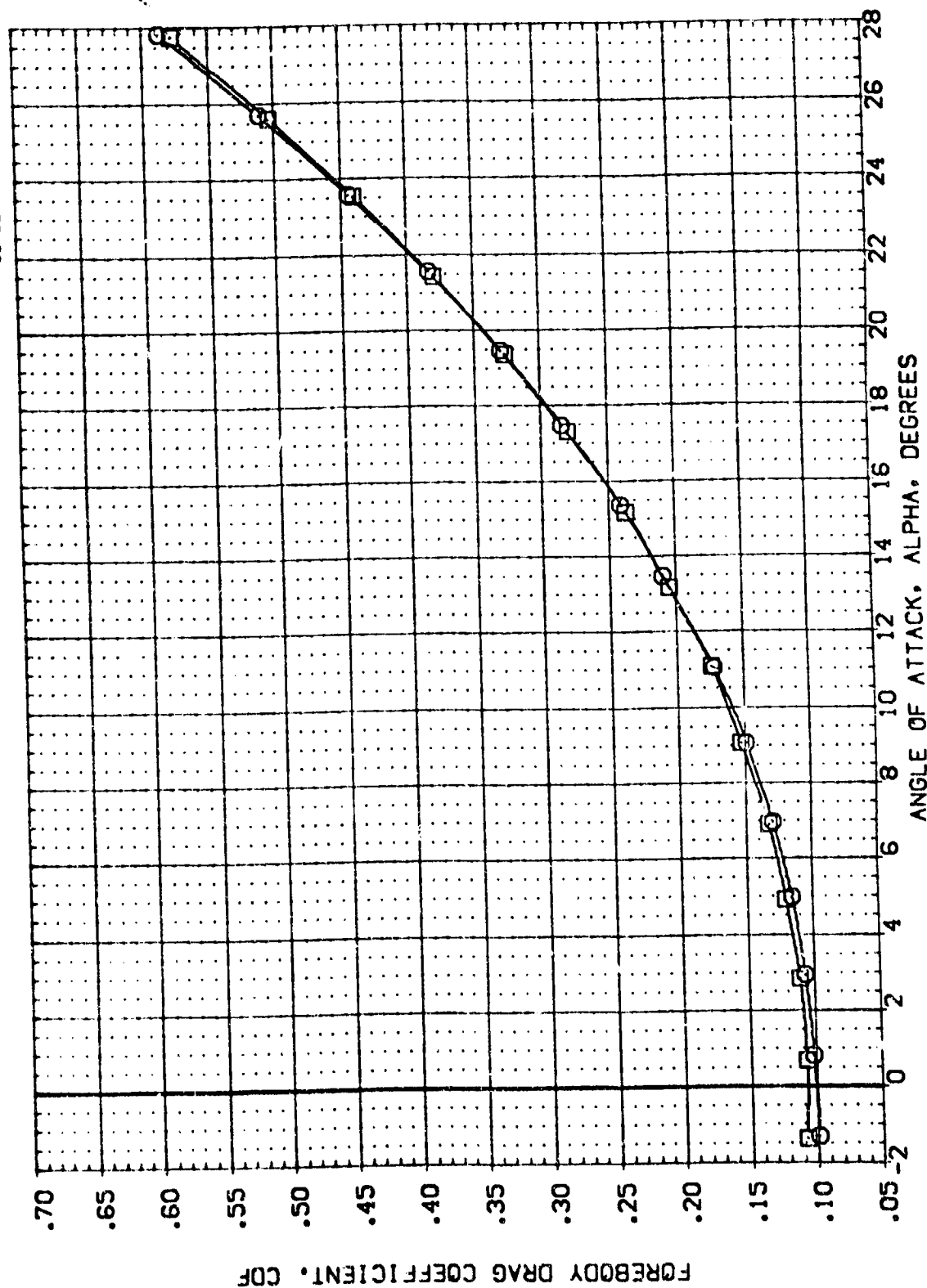


FIG. 13 OMS PODS EFFECT

(B)MACH = 2.00

DATA SET SYMBOL: (R3T003) (N8T004)

CONFIGURATION DESCRIPTION: AVES 66-706 CA13 B10 CS D7 F4 V87E18 VSX5 AVES 66-706 CA13 B10 CS D7 F4 V87E18 VSX5

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. X-MRP 1076.4800 IN. Y-MRP .0000 IN. Z-MRP 400.0000 IN. SCALE 0.50

BOOFLP -14.200 ELEVON .000 RUDDER .000 SPOBXY 54.900

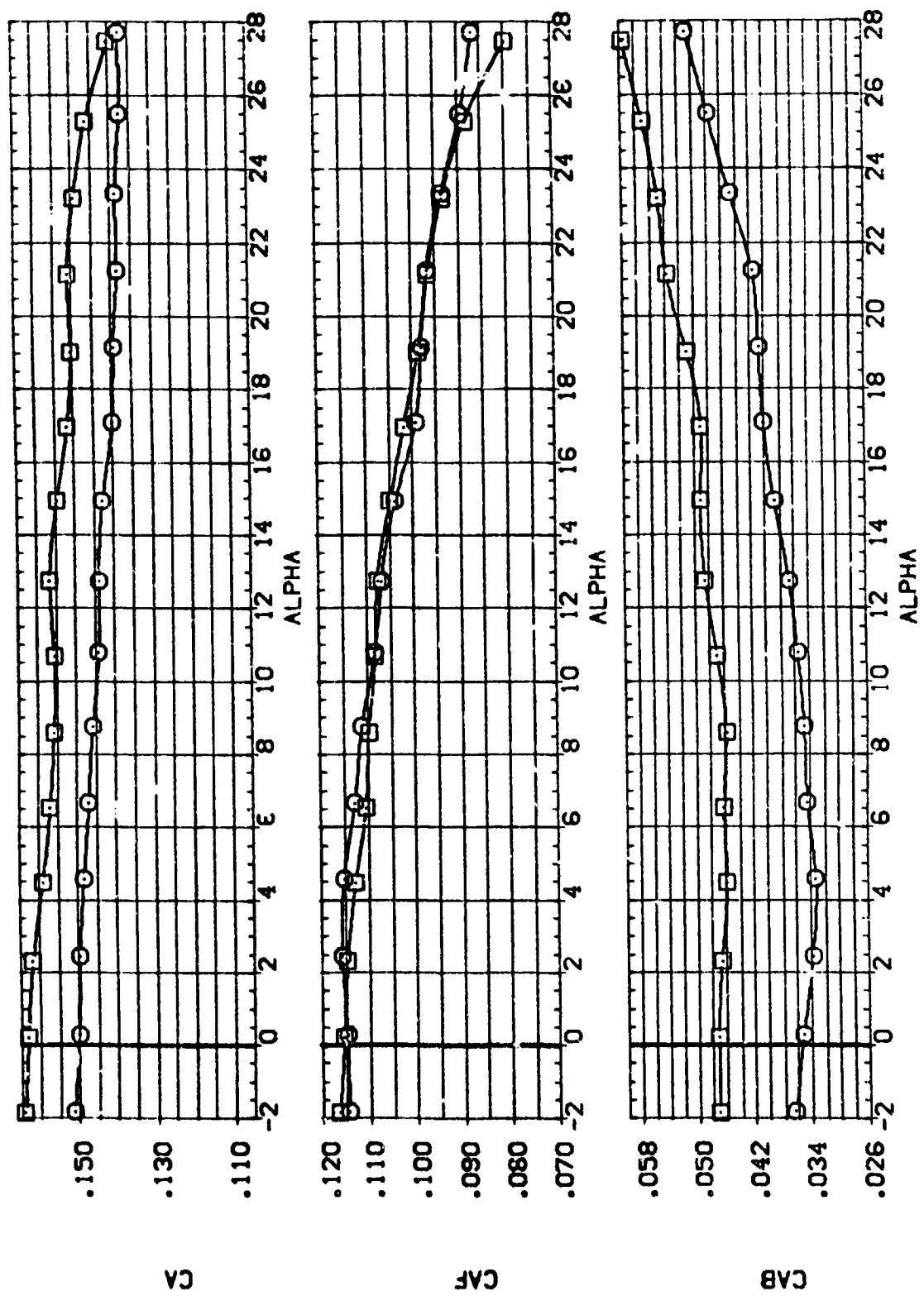
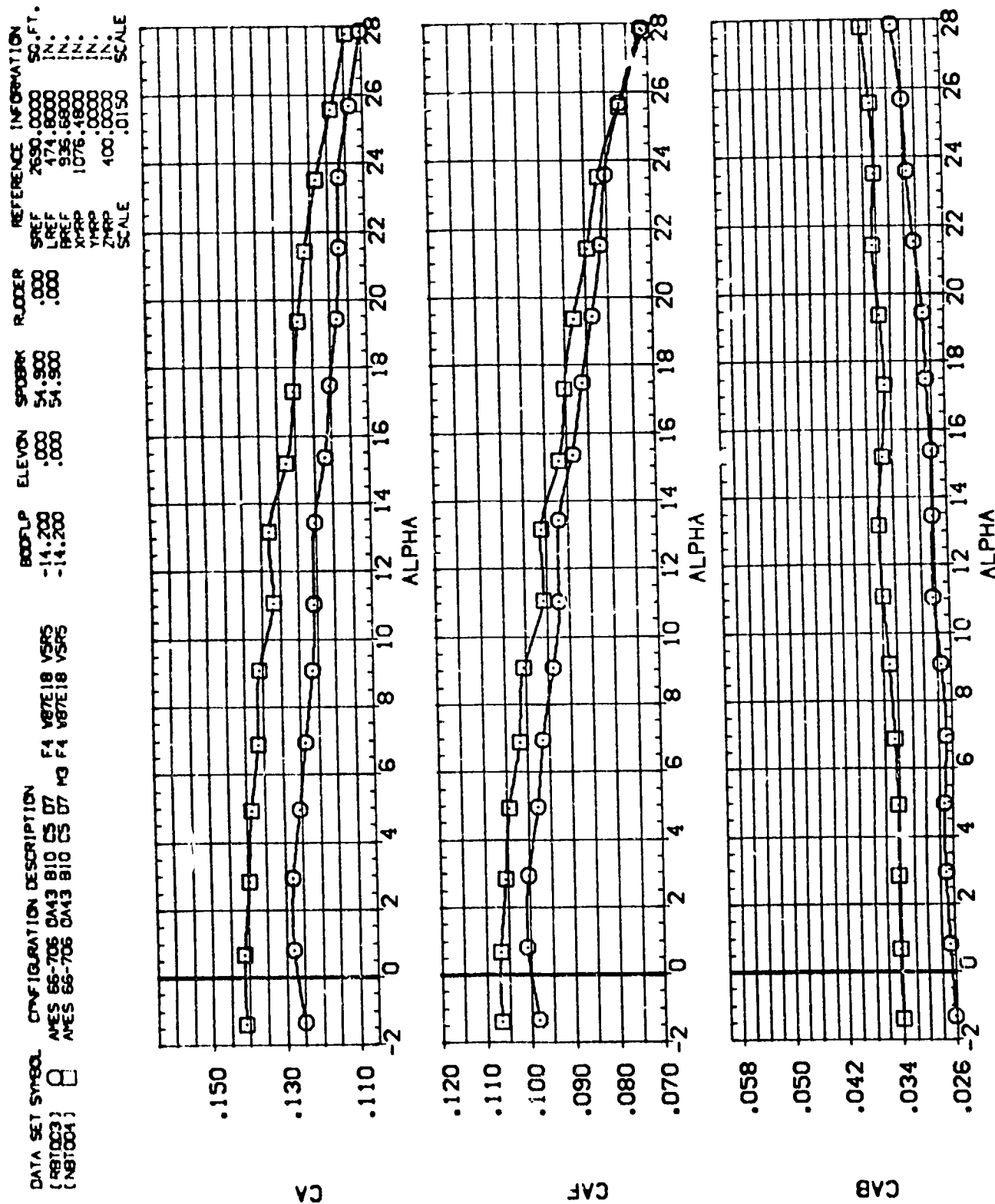


FIG. 13 OMS POOS EFFECT
CA/MACH = 1.50



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(R97003)	□	ANES 66-706 0A43 B10 CS D7	F4 V87E18 V5R5	SREF 2690.0000	50. FT.
(R97004)	□	ANES 66-706 0A43 B10 CS D7	M3 F4 V87E18 V5R5	LREF 474.8000	N.
				BREF 936.6800	N.
				XREF 1076.4800	N.
				YREF 400.0000	N.
				ZREF 400.0000	N.
				SCALE .0150	SCALE

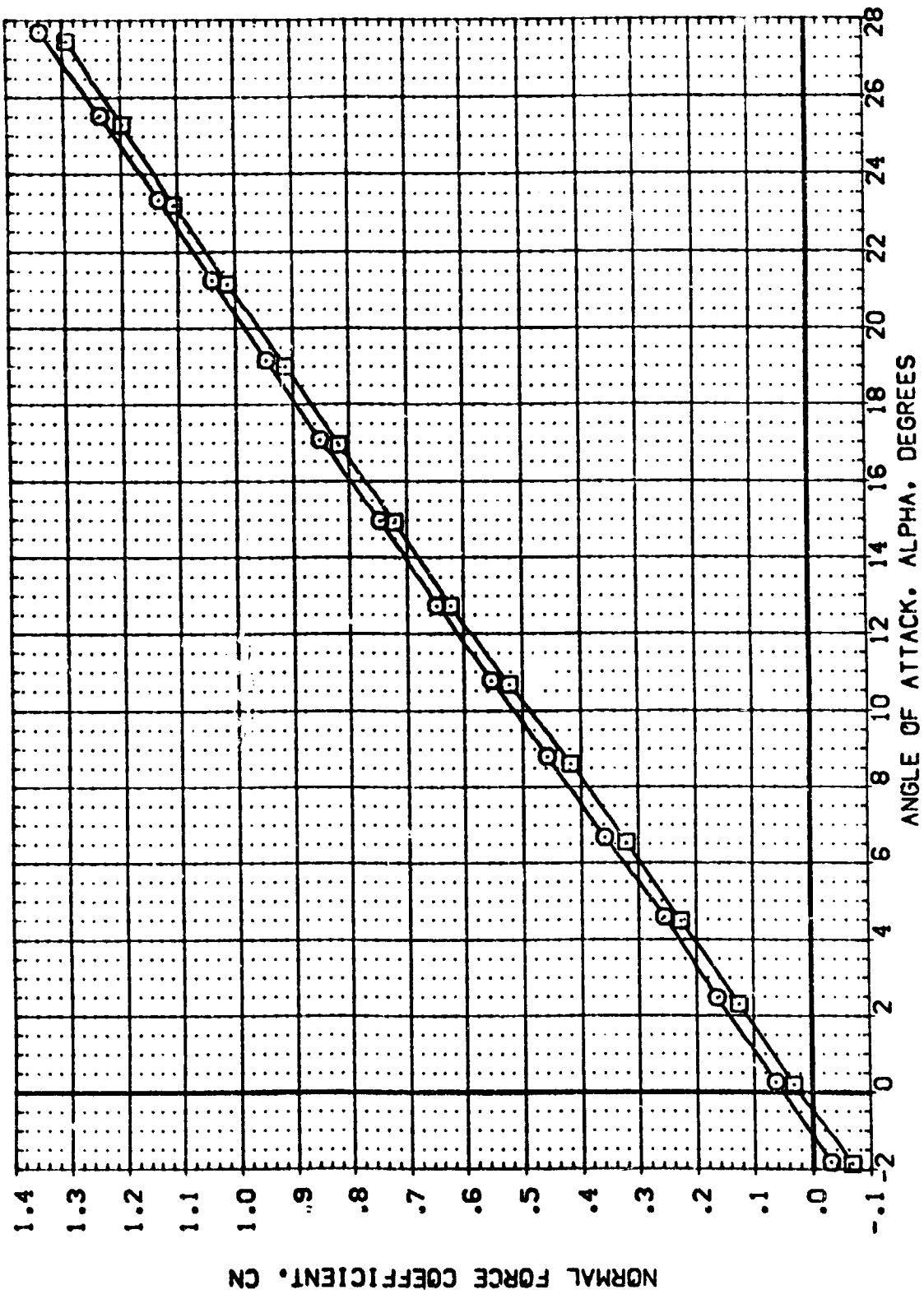


FIG. 13 OMS PODS EFFECT

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(RBT003)	AVES 66-706 0A43 B10 CS D7 F4 V87E18 VSR5	-14.200	.000	54.900	.000	SREF 2690.0000 50.0 FT.
(NBT004)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	.000	54.500	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						VMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

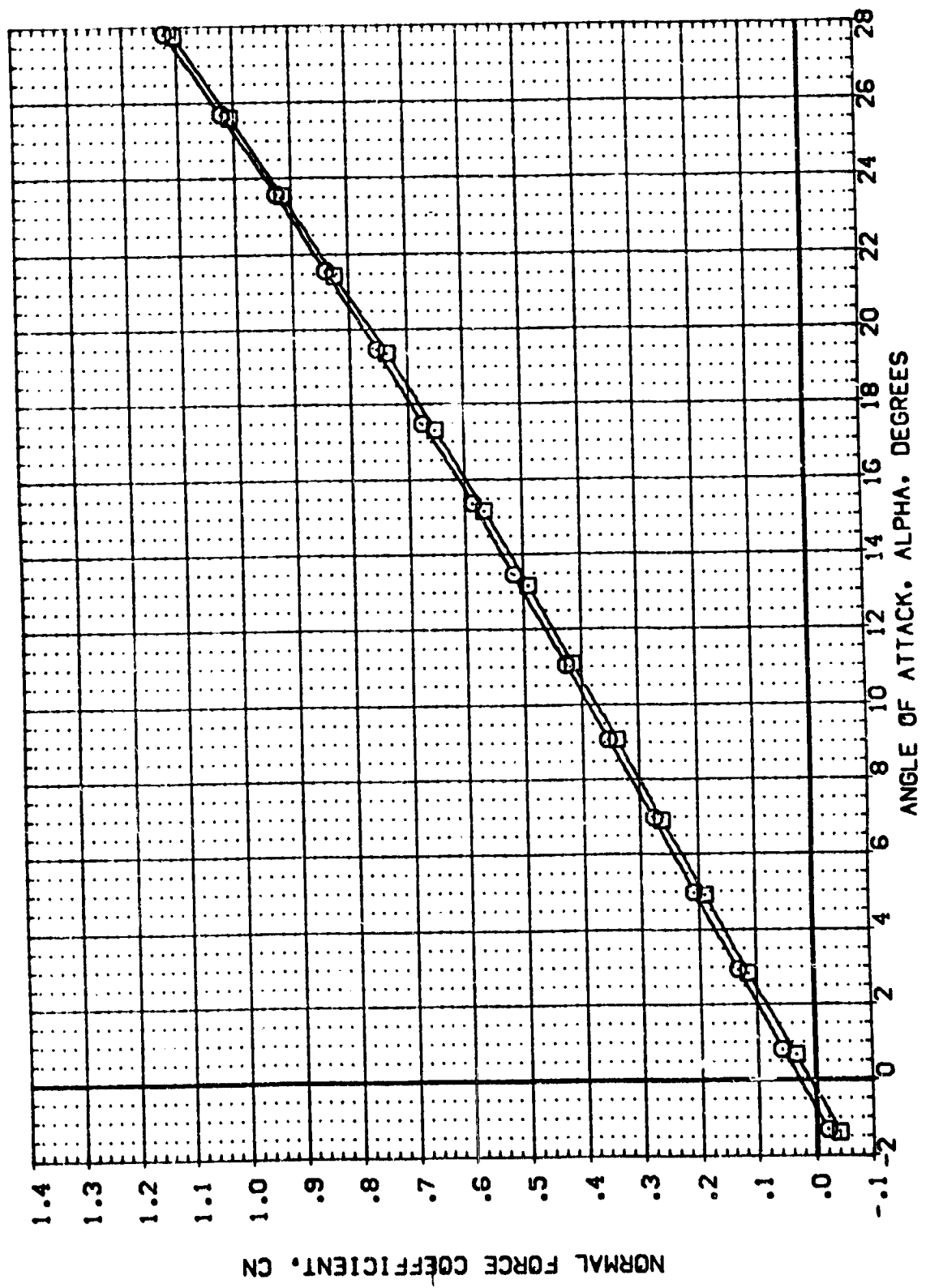


FIG. 13 0MS PODS EFFECT
(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MODEL ¹		ELEVON		SPDWRK		RUDDER		REFERENCE INFORMATION	
[RBT003]	[NET004]	AVES 66-706	OM43 B10 CS D7	F4	V87E18	V87E18	V87E18	V87E18	V87E18	V87E18	V87E18	SREF	2650.0000
		AVES 66-706	OM43 B10 CS D7	M3	F4	V87E18	V87E18	V87E18	V87E18	V87E18	V87E18	LINEF	474.8000
												SREF	836.5800
												WPRP	1076.4800
												WPRP	1076.4800
												ZPRP	400.0600
												SCALE	.0150

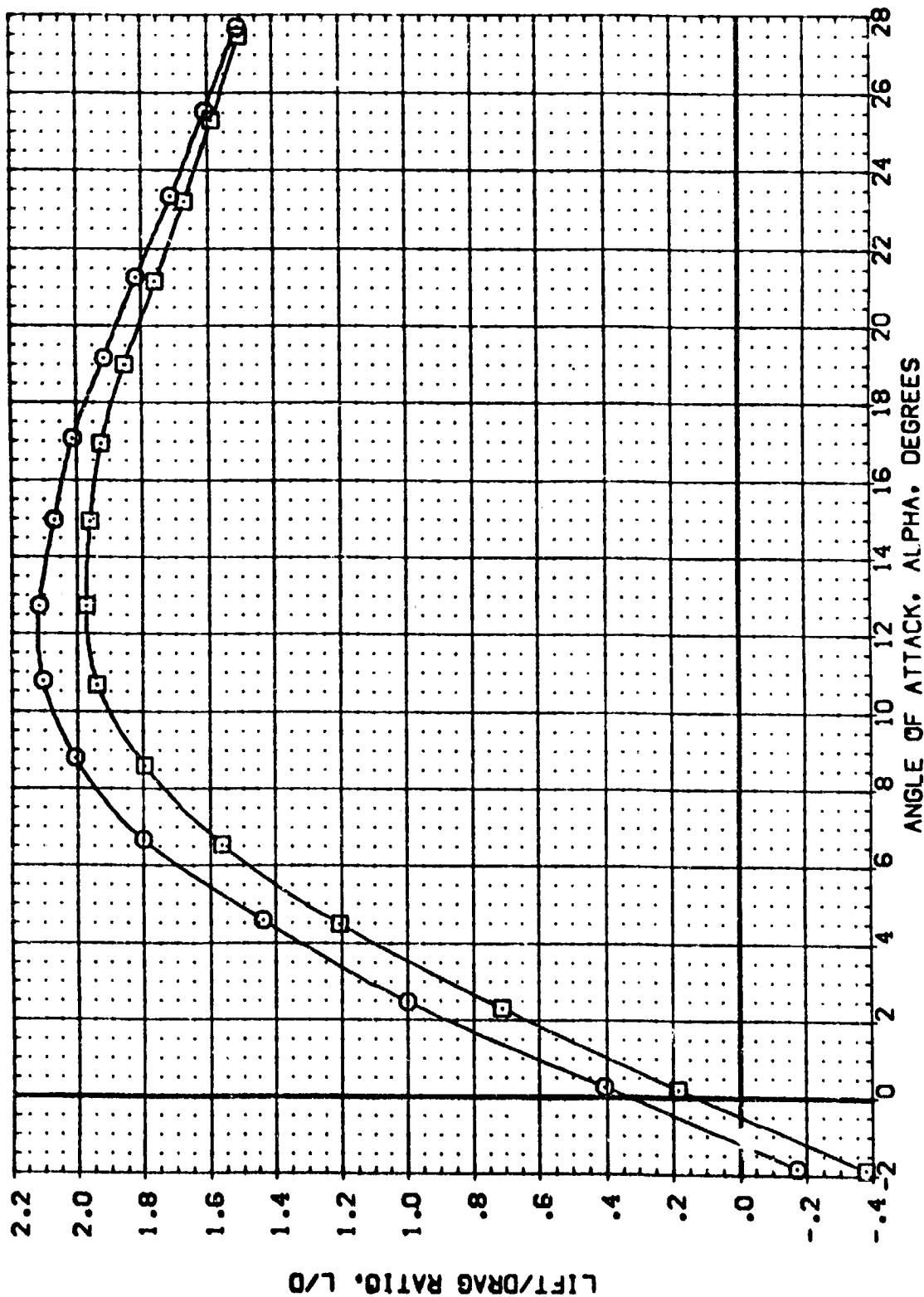


FIG. 13 OMS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL: (RBT003) (NBT004)

CONFIGURATION DESCRIPTION: AYES 26-706 QM3 B10 CS D7 F4 V87E18 V55S
AYES 66-706 QM3 B10 CS D7 F4 V87E18 V55S

BOOF LP: -14.200
ELEVON: .000
SPORBN: 54.900
RUDDER: .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XMRP 1076.1800 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

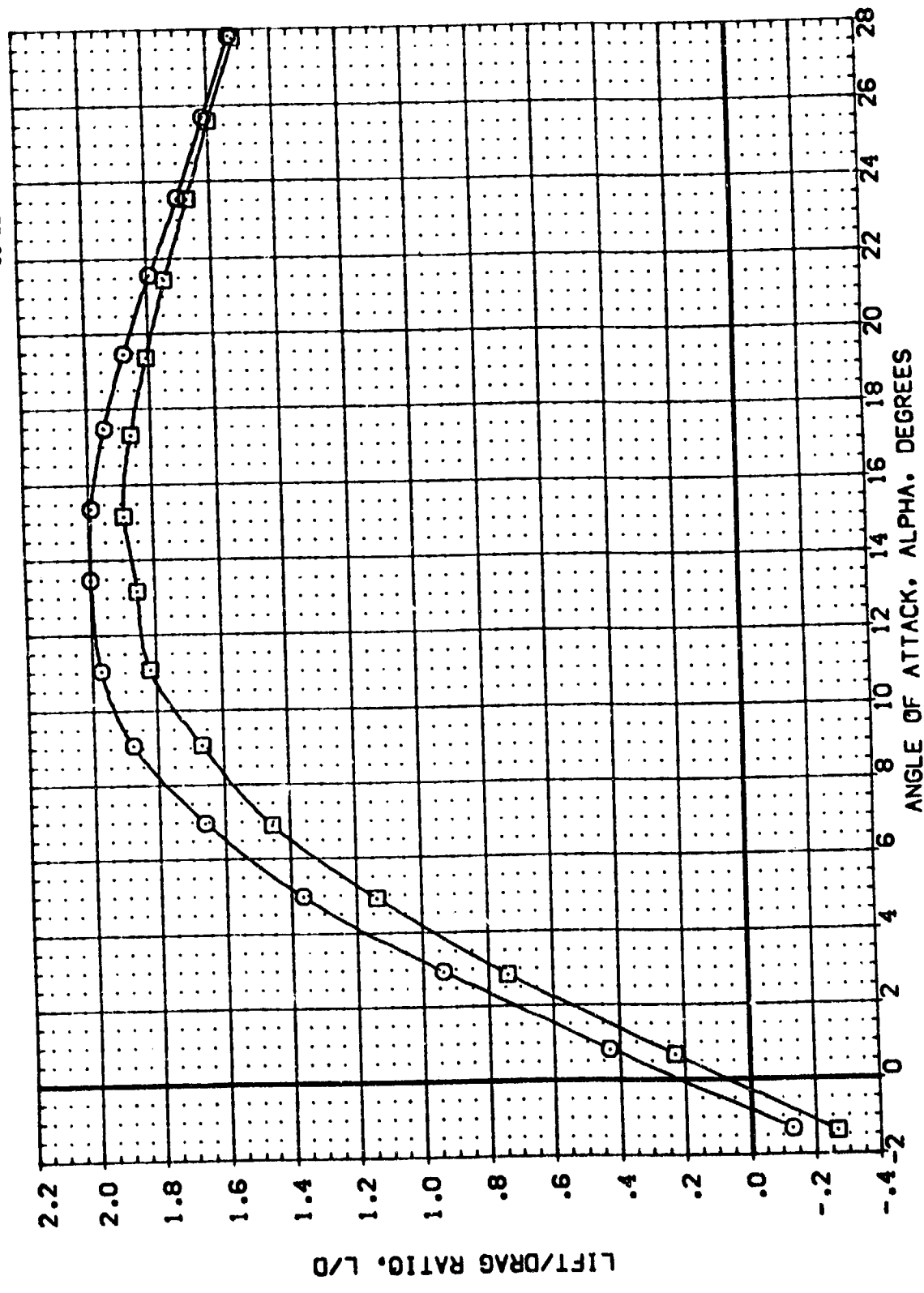


FIG. 13 QMS PODS EFFECT
(B)MACH = 2.00

- DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(RBT003)		AVES 66-706 0M43 B10 CS D7		-14.200		.000		54.900		.000		SREF 2690.0000 50.000	
(NBT004)		AVES 66-706 0M43 B10 CS D7		-14.200		.000		54.900		.000		LREF 474.0000 IN.	
		F4 V87E18 V5N5										BREF 536.8000 IN.	
		F4 V87E18 V5N5										XREF 1076.0000 IN.	
												YREF .0000 IN.	
												ZREF 400.0000 IN.	
												SCALE .0150	

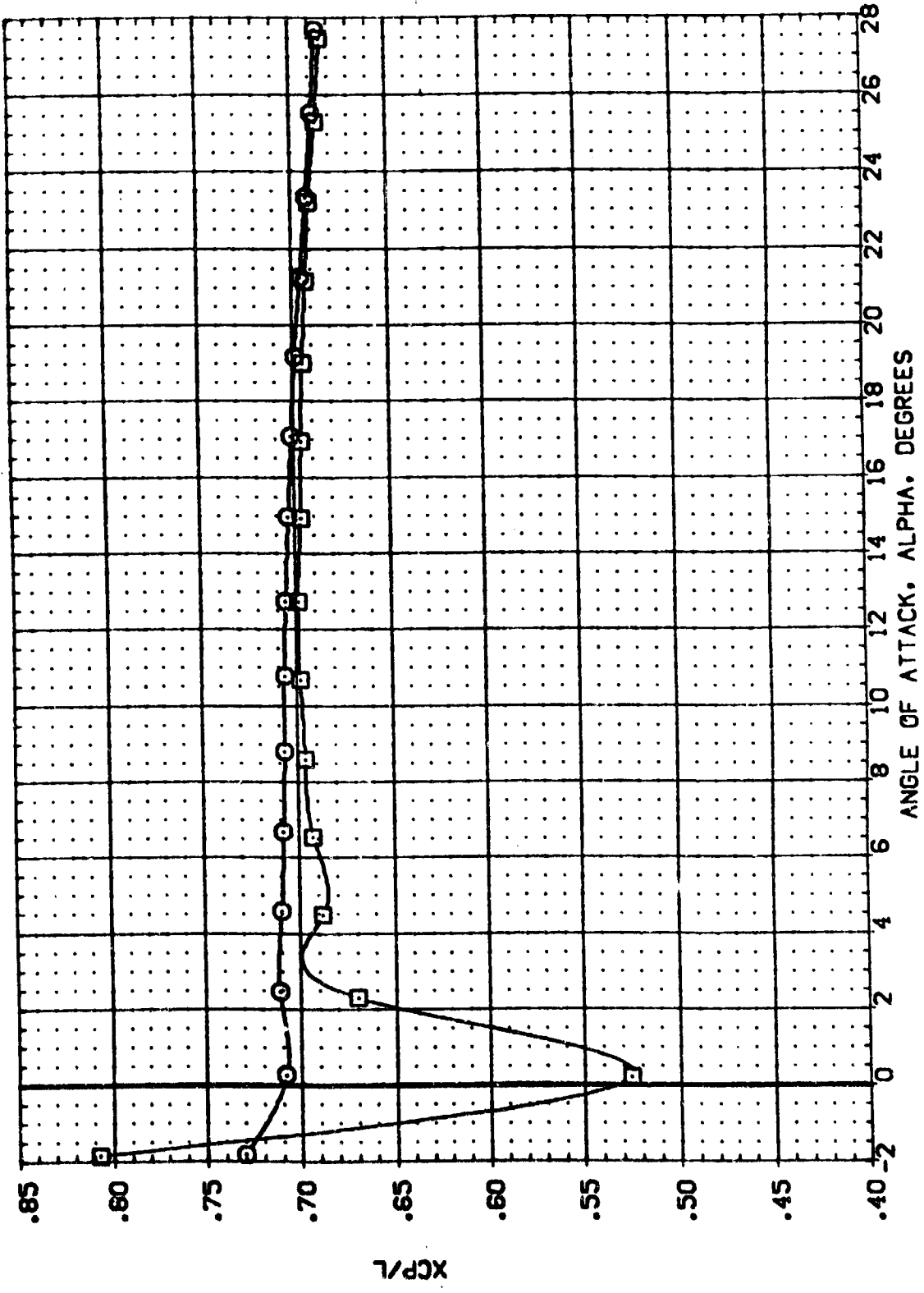


FIG. 13 0MS PODS EFFECT

(A)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RLOOR	REFERENCE INFORMATION
(RBT003)	AMES 66-706 0A13 B10 CS D7	-14.200	.000	54.900	.000	SREF 2650.0000 50.57. IN.
(RBT004)	AMES 66-706 0A13 B10 CS D7	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150 SCALE

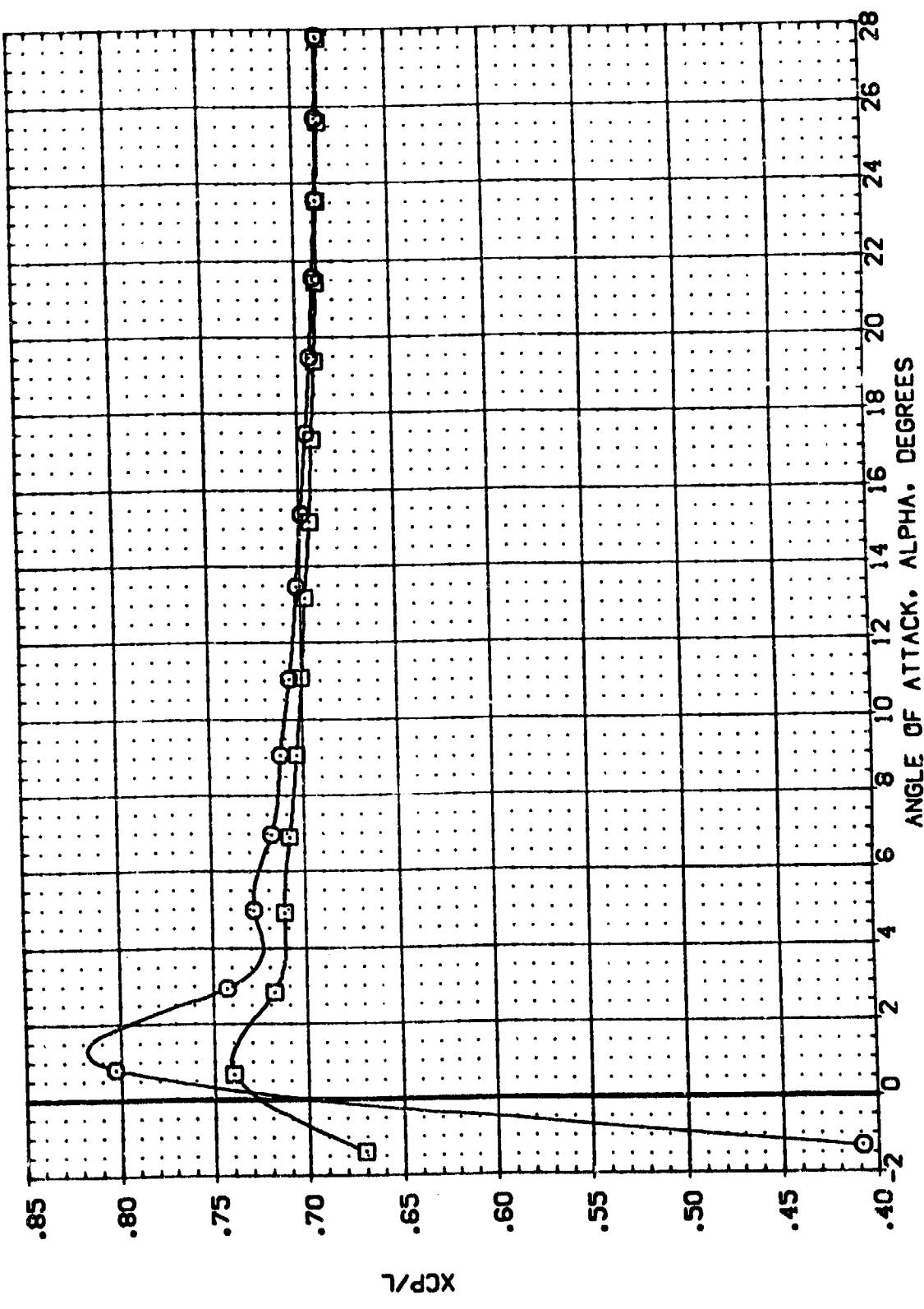


FIG. 13 0MS PODS EFFECT

(B)MACH = 2.00

DATA SET SYMBOL: (PRTQ03) (NBTQ04)

CONFIGURATION DESCRIPTION: AVES 66-706 0M43 B10 CS D7 F4 V87E18 V595
 AVES 66-706 0M43 B10 CS D7 F4 V87E18 V595

BOOF LP: -14.200
 ELEVON: .000
 SPDBRK: 54.500
 RUDDER: .000

REFERENCE INFORMATION: SREF: 2690.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XPRP: 1076.4800 IN.
 YPRP: .0000 IN.
 ZPRP: 400.0000 IN.
 SCALE: .0150

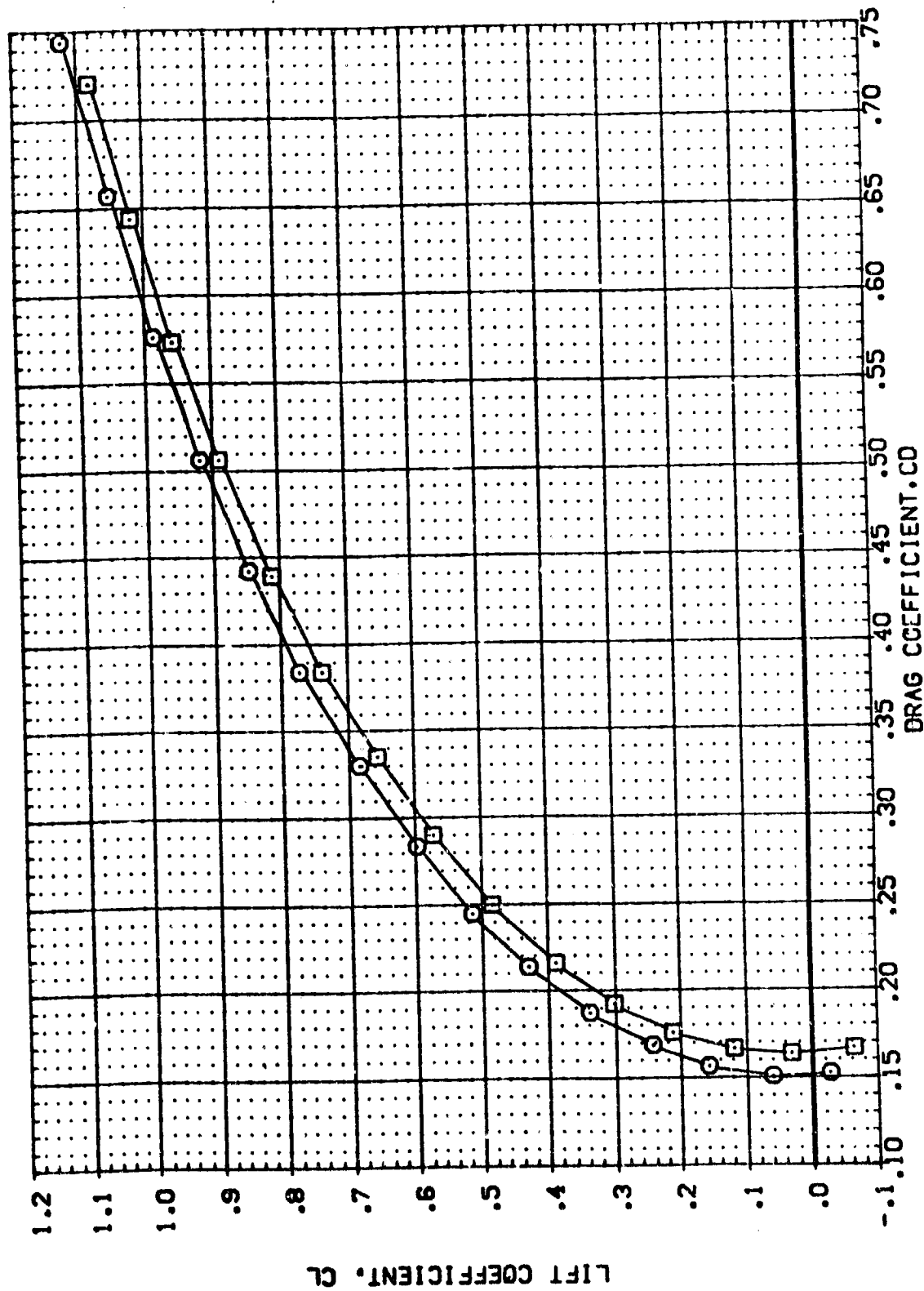
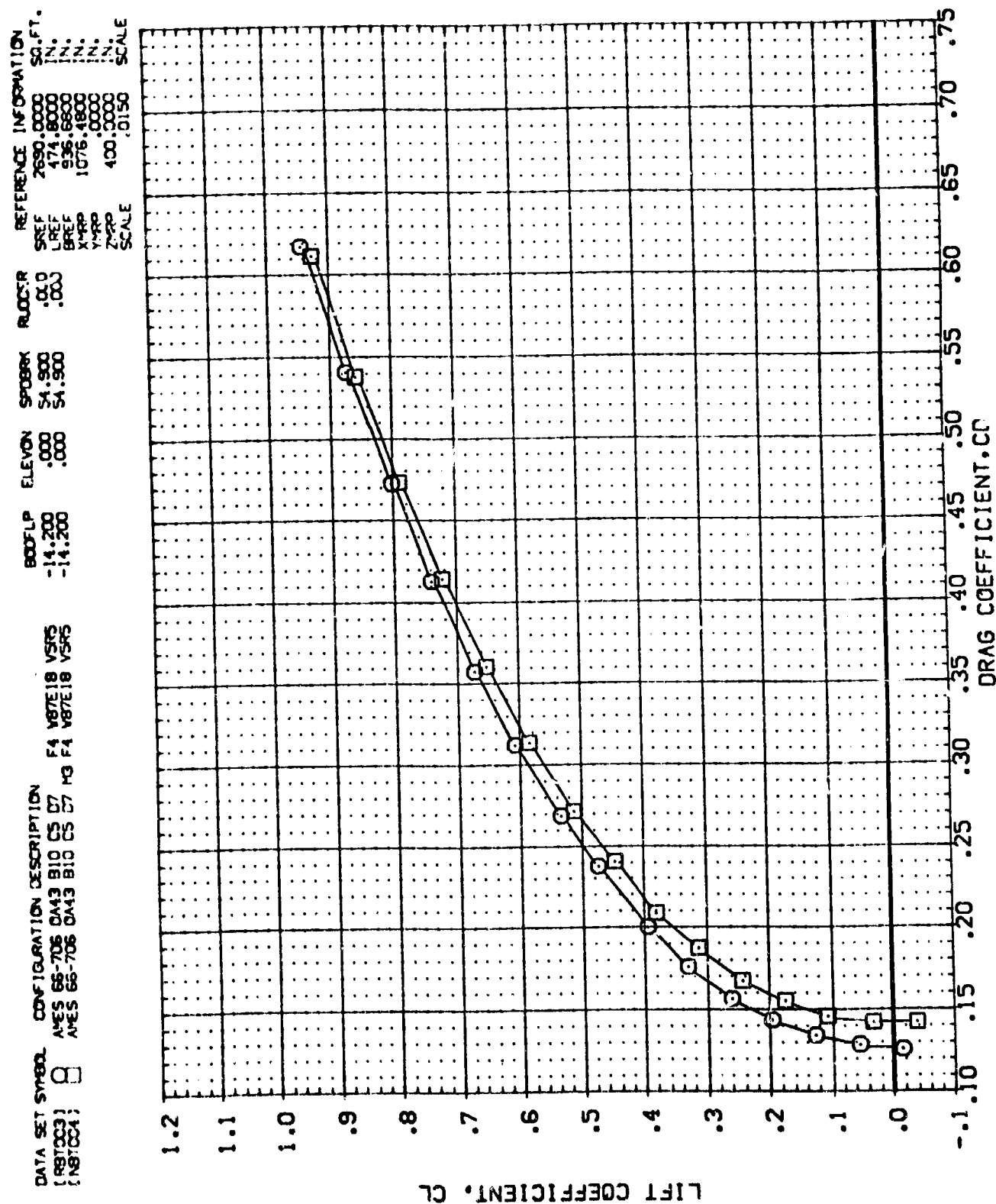


FIG. 13 0MS PODS EFFECT

(MACH = 1.50)



(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
[RBT003]	AVES 66-706 0A13 B10 C5 D7 F4 V87E18 VSRS	-14.200	.000	54.530	.000	SREF 2630.0000 SQ.FT.
[NB1004]	AVES 66-706 0A13 B10 C5 D7 H3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF .0000 IN.
						SCALE .0150

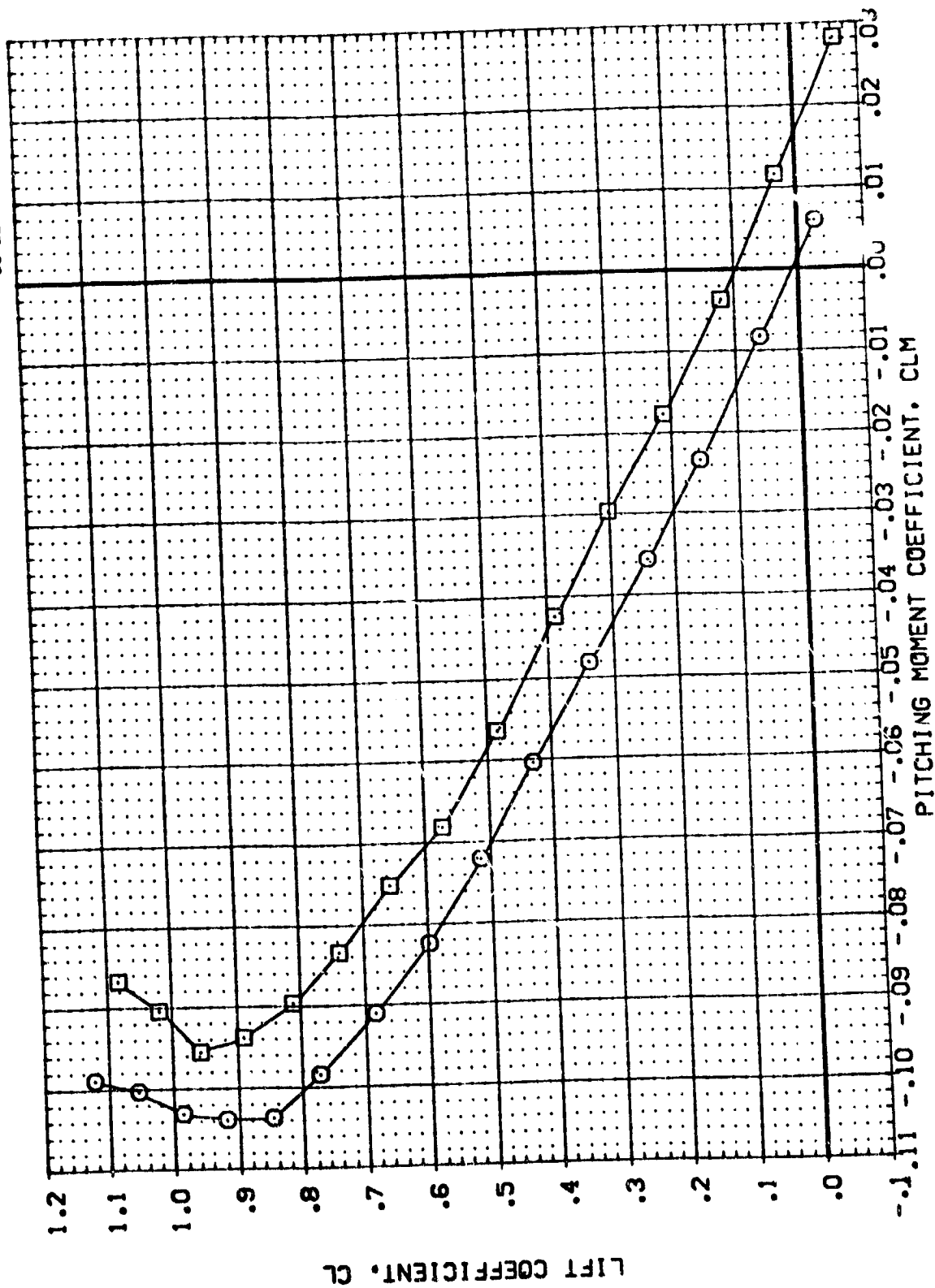


FIG. 13 QMS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL: (RBT003) (NBT004)

CONFIGURATION DESCRIPTION: AYES 66-706 0A43 B10 CS D7 F4 V87E18 V5R5 AYES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5R5

ROOF LP: -14.200 -14.200

ELEVON: .000 .000

SPDBRK: 54.900 54.900

RUDDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XPRP 1076.4800 IN. YPRP 400.0000 IN. ZPRP 400.0000 IN. SCALE .0150

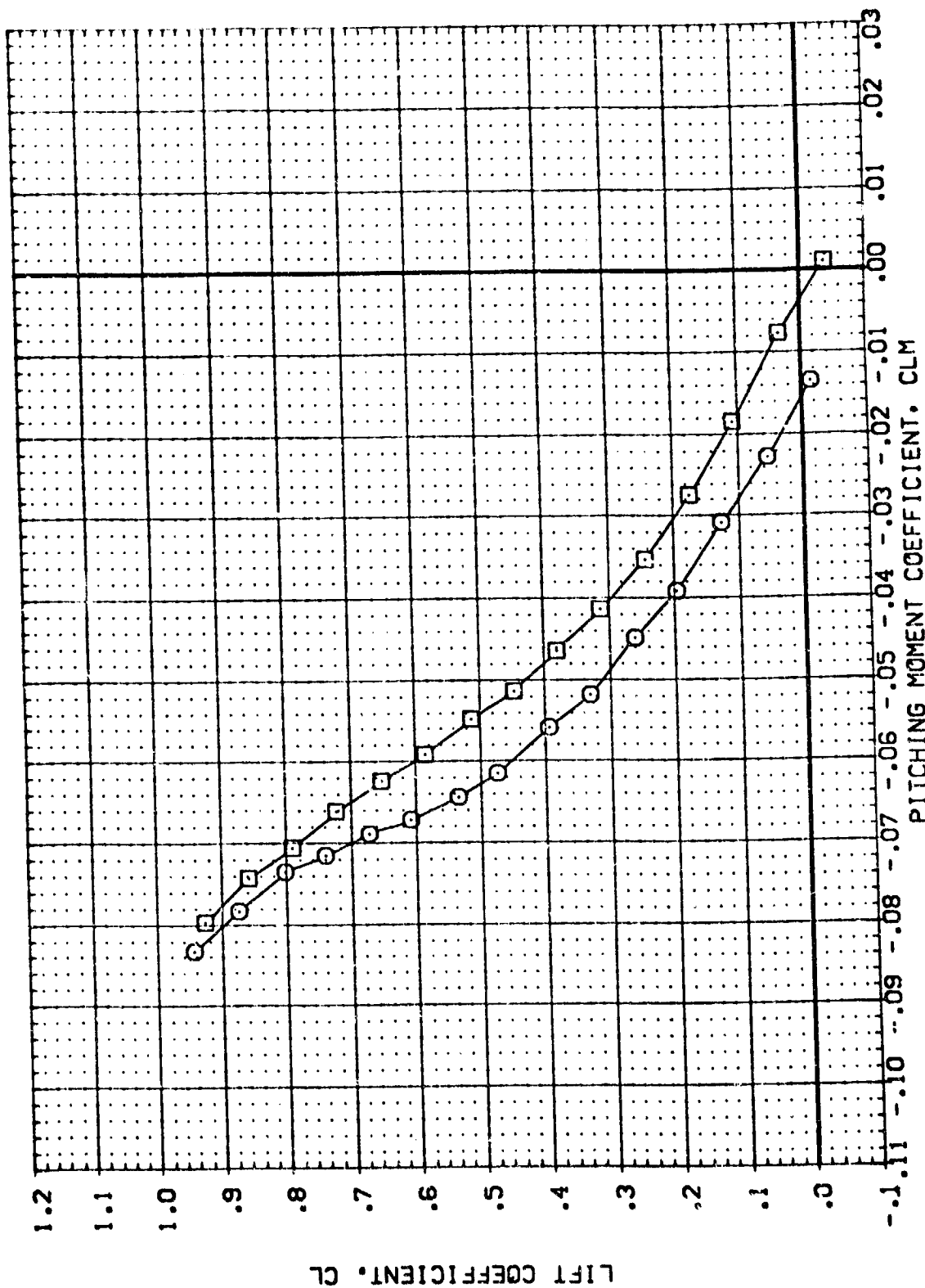


FIG. 13 0MS PODS EFFECT

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOF LP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(R810C3)		APES 66-106	0A43 B10 CS D7	F4	V87E18	V5RS						SREF	2690.0000
(N810C4)		APES 66-705	0A43 B10 CS D7	M3	F4	V87E18	V5RS					LREF	474.8000
												BREF	936.6800
												XMRP	1076.1800
												YMRP	400.0000
												ZMRP	400.0000
												SCALE	0.150

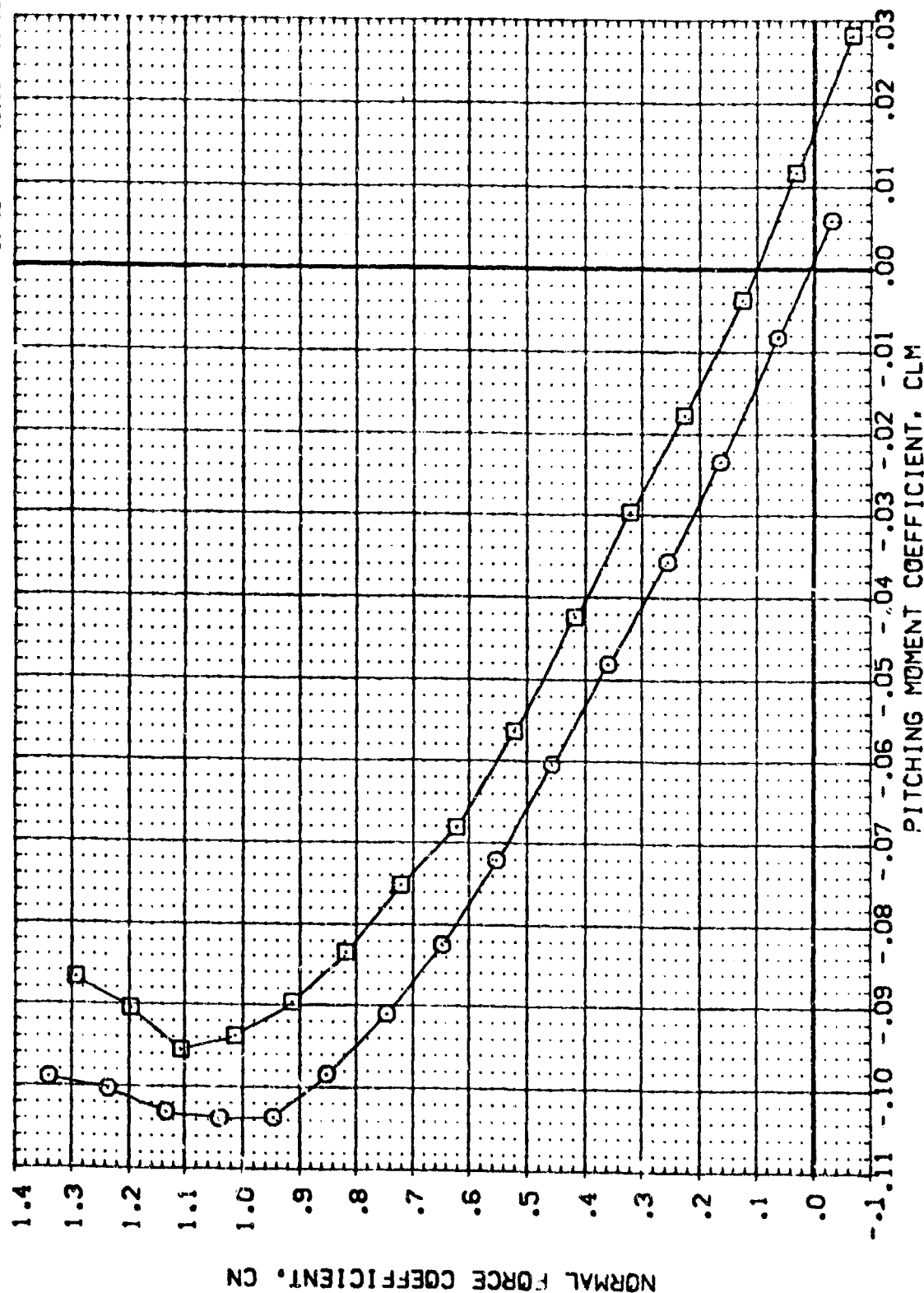


FIG. 13 0MS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPUSBR	RUDDER	REFERENCE INFORMATION
(987003)	AMES 65-706 0A13 B10 CS 07	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(987004)	AMES 65-706 0A13 B10 CS 07	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XREF 1076.1800 IN.
						YREF 0.0000 IN.
						ZREF 0.0000 IN.
						SCALE 400.0000
						SCALE .0150

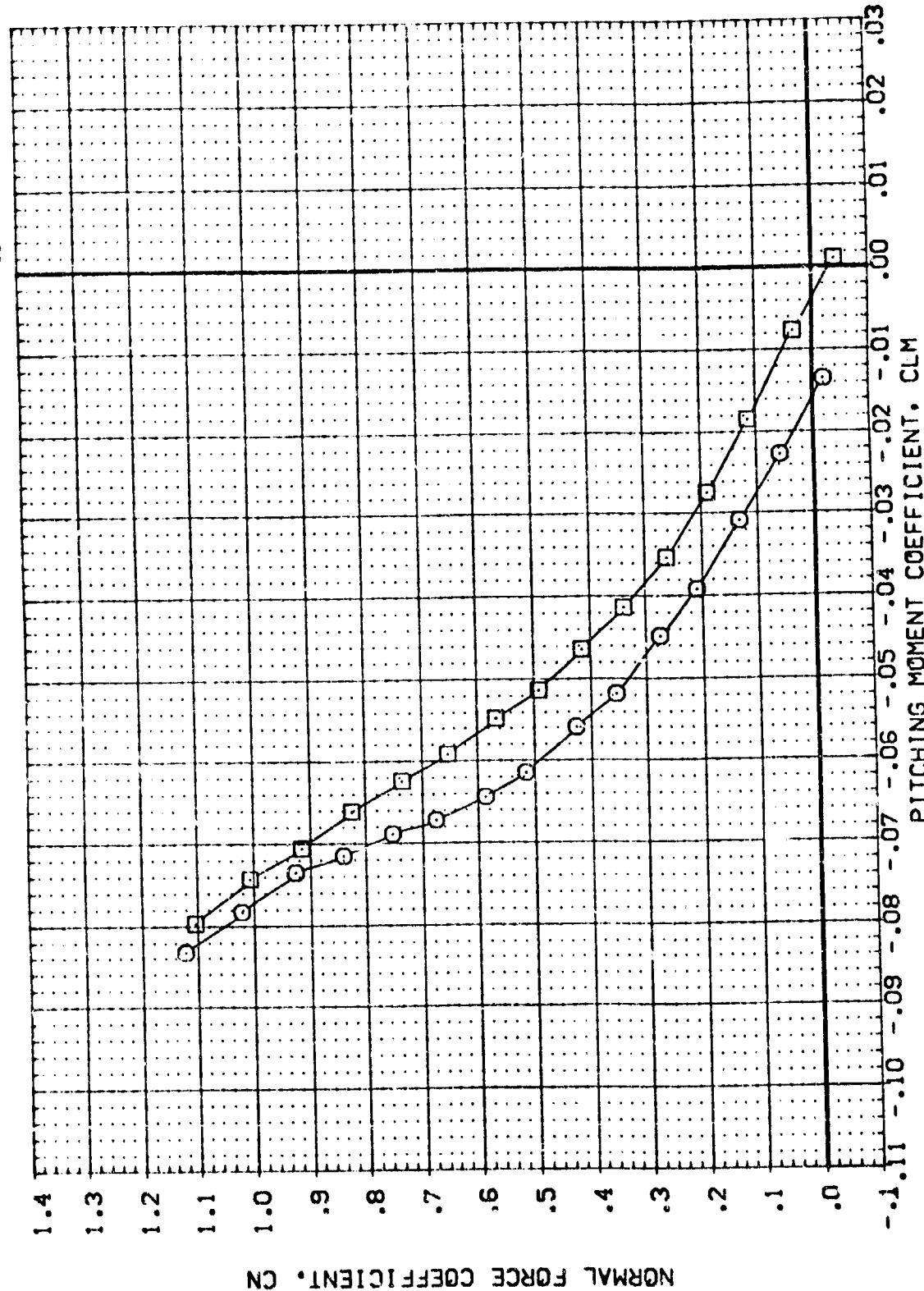


FIG. 13 OMS PODS EFFECT

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										BOOFLP		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION			
[89-003]		AVES 66-706 DA4 810 CS 07 F4 V87E18 VSRS										-14.200		.000		54.500		.000		SREF 2650.0000 SQ.FT.			
[89-004]		AVES 66-706 DA43 810 CS 07 F4 V87E18 VSRS										-14.200		.000		54.500		.000		LREF 474.8000 IN.			
																				BREF 936.6871 IN.			
																				XREF 1076.4100 IN.			
																				YREF .0000 IN.			
																				ZREF 400.0000 IN.			
																				SCALE .0150			

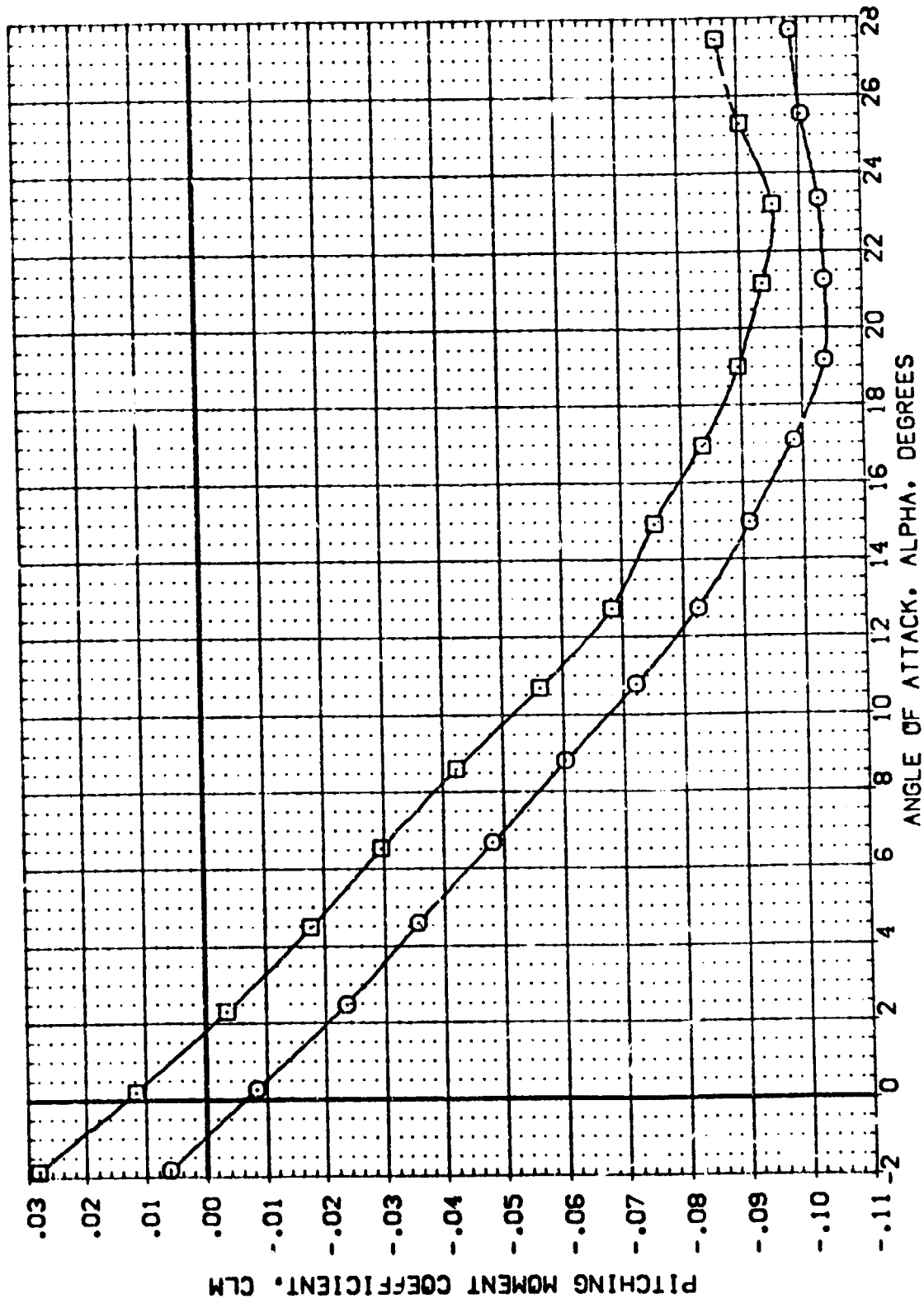


FIG. 13 QMS PODS EFFECT

(A)MACH = 1.50



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(19-003) AYES 66-706 DA13 B10 C5 D7 F4 V87E18 V59S

(19-004) AYES 66-706 DA13 B10 C5 D7 F4 V87E18 V59S

REFERENCE INFORMATION

SREF 2690.0000 50. FT.

LREF 474.8000

BREF 936.8800

X-PRO 1076.1800

Y-PRO 0.0000

Z-PRO 400.0000

SCALE .0150

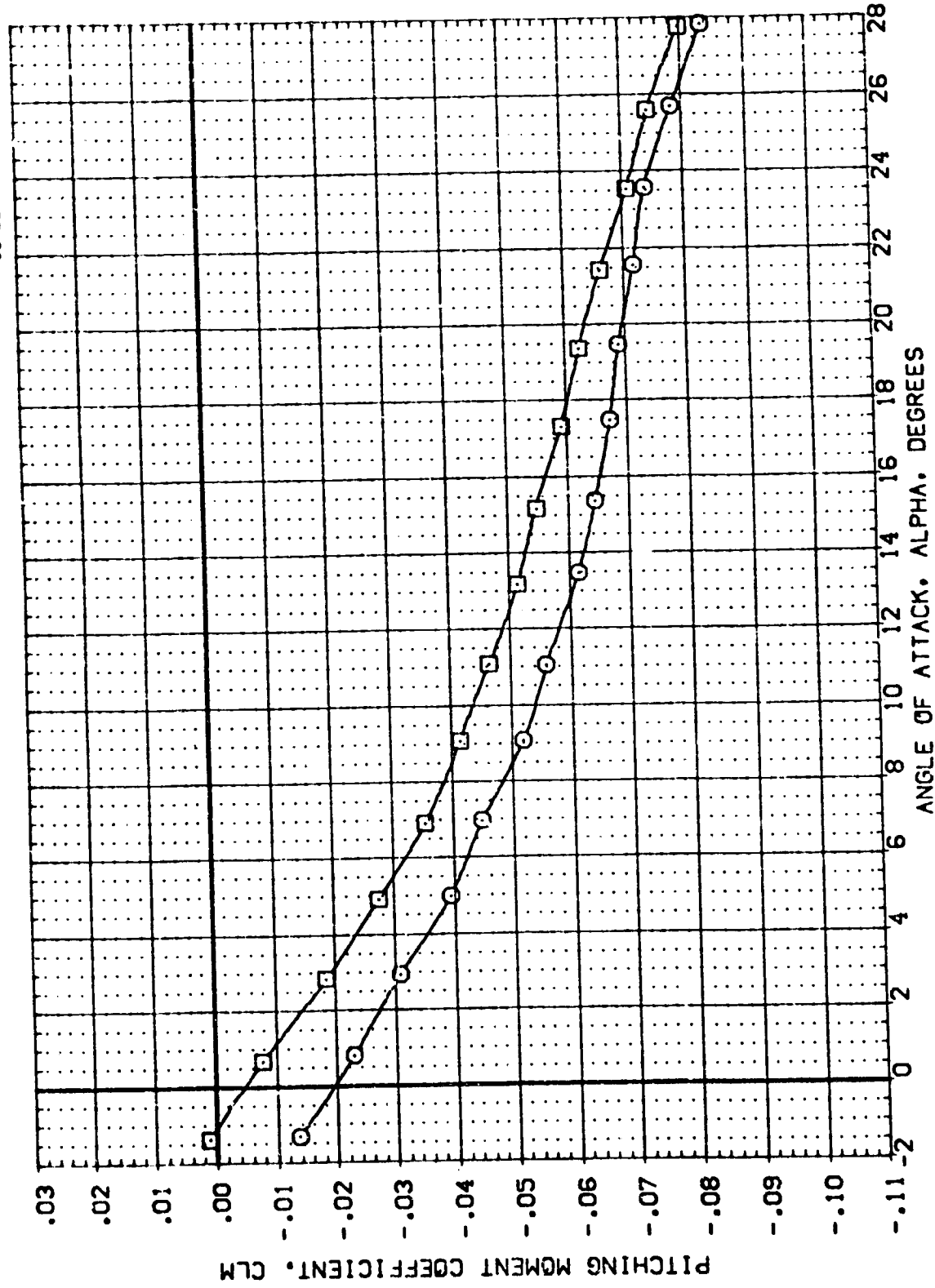


FIG. 13 QMS PODS EFFECT

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SP05BK	RUDDER	REFERENCE INFORMATION
(881003)	AES 66-706 0A43 B10 C5 D7	-14.200	.000	54.900	.000	SREF 2690.0000 SC.FT.
(381004)	AES 66-706 0A43 B10 C5 D7	-14.200	.000	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1103.2400 IN.
						YMRP 100.0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150

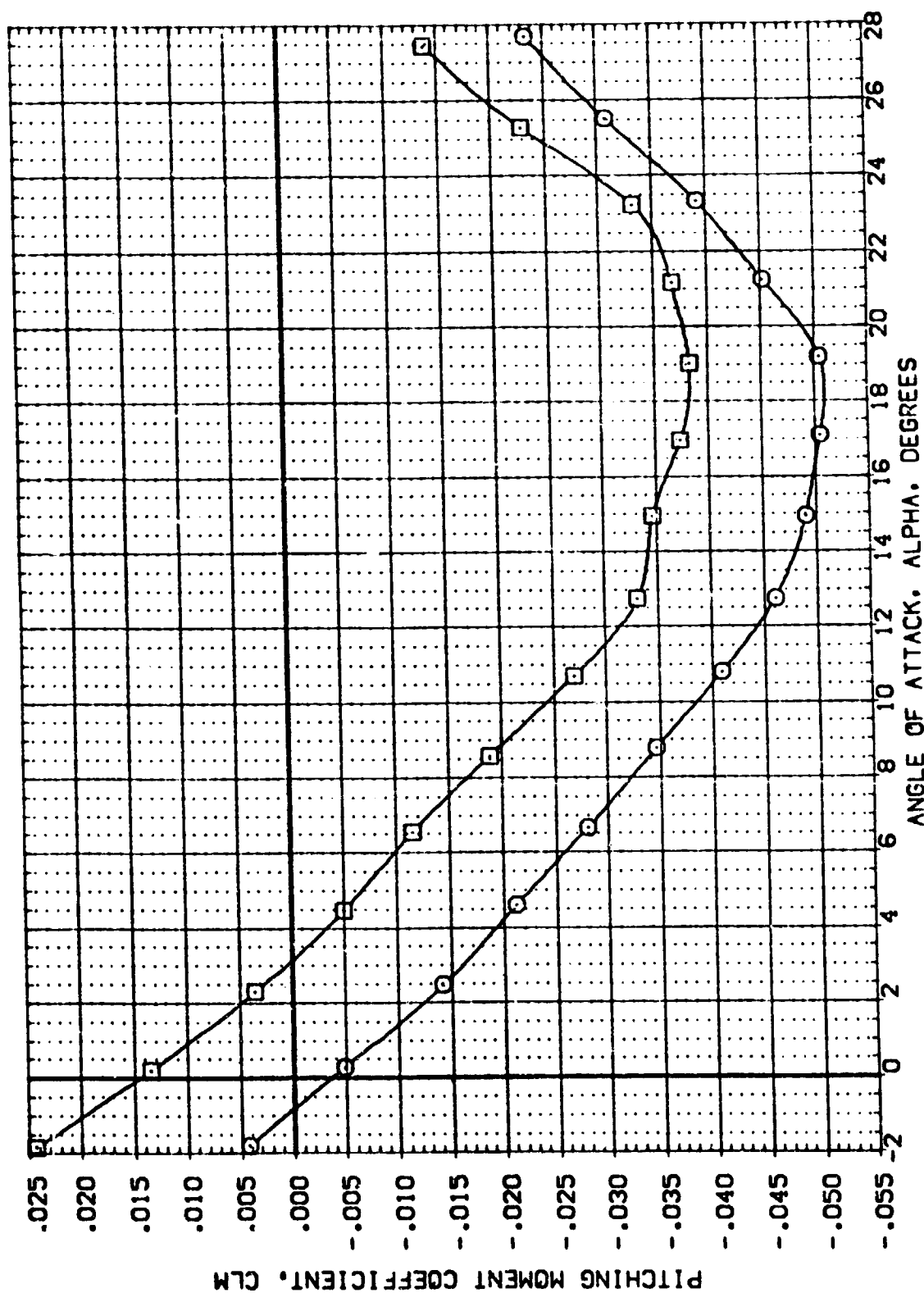


FIG. 13 QMS PQDS EFFECT (AFT C.G.)

(A)MACH = 1.50



DATA SET SYMBOL: (BB)OC3 (DBTOC4)

CONFIGURATION DESCRIPTION: AVES 66-706 CM43 B10 CS D7 F4 V87E18 VSMS AVES 66-706 CM43 B10 CS D7 F4 V87E18 VSMS

BOOF LP: -14.200 -14.200

ELEVON: .000 .000

SPOBRK: 54.500 54.500

RUDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. YMRP 1103.2400 IN. YMRP 400.0000 IN. ZMRP 400.0000 IN. SCALE .0150

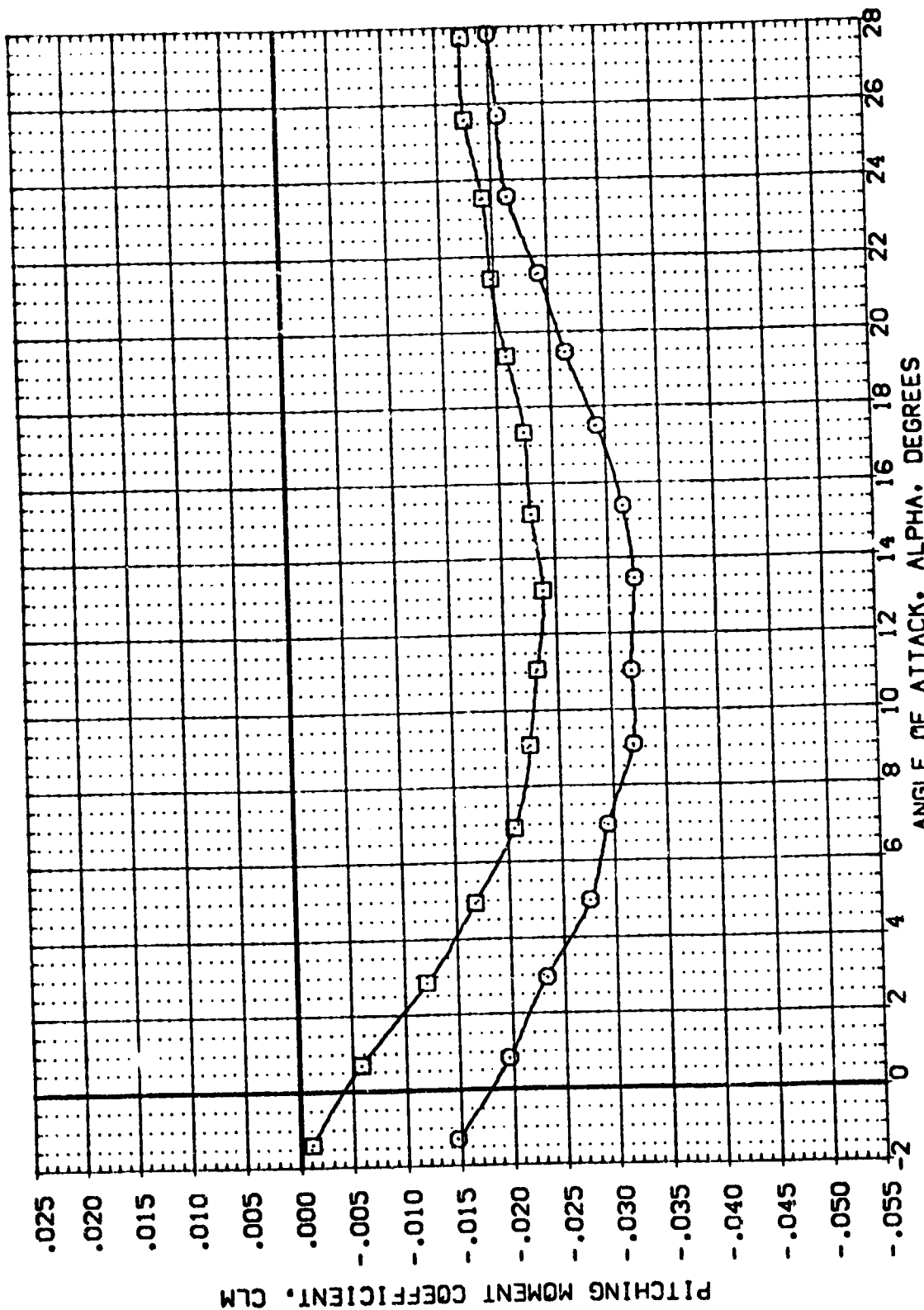


FIG. 13 OMS PODS EFFECT (AFT C.G.)

(B)MACH = 2.00

(RBTVO3)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION			
○		1.500	BETA	.000	ELEVON	.000		SREF	2850.0000	90.FT.	
□		2.000	WLRON	.000	SPOBRK	54.900		LREF	474.0000	IN.	
			BOOFPL	-14.200	RJODER	.000		BREF	936.6800	IN.	
			ELVN-L	.000	ELVN-R	.000		XTRP	1076.4800	IN.	
								YTRP	400.0000	IN.	
								ZTRP	100.0000	IN.	
								SCALE	.0150	SCALE	

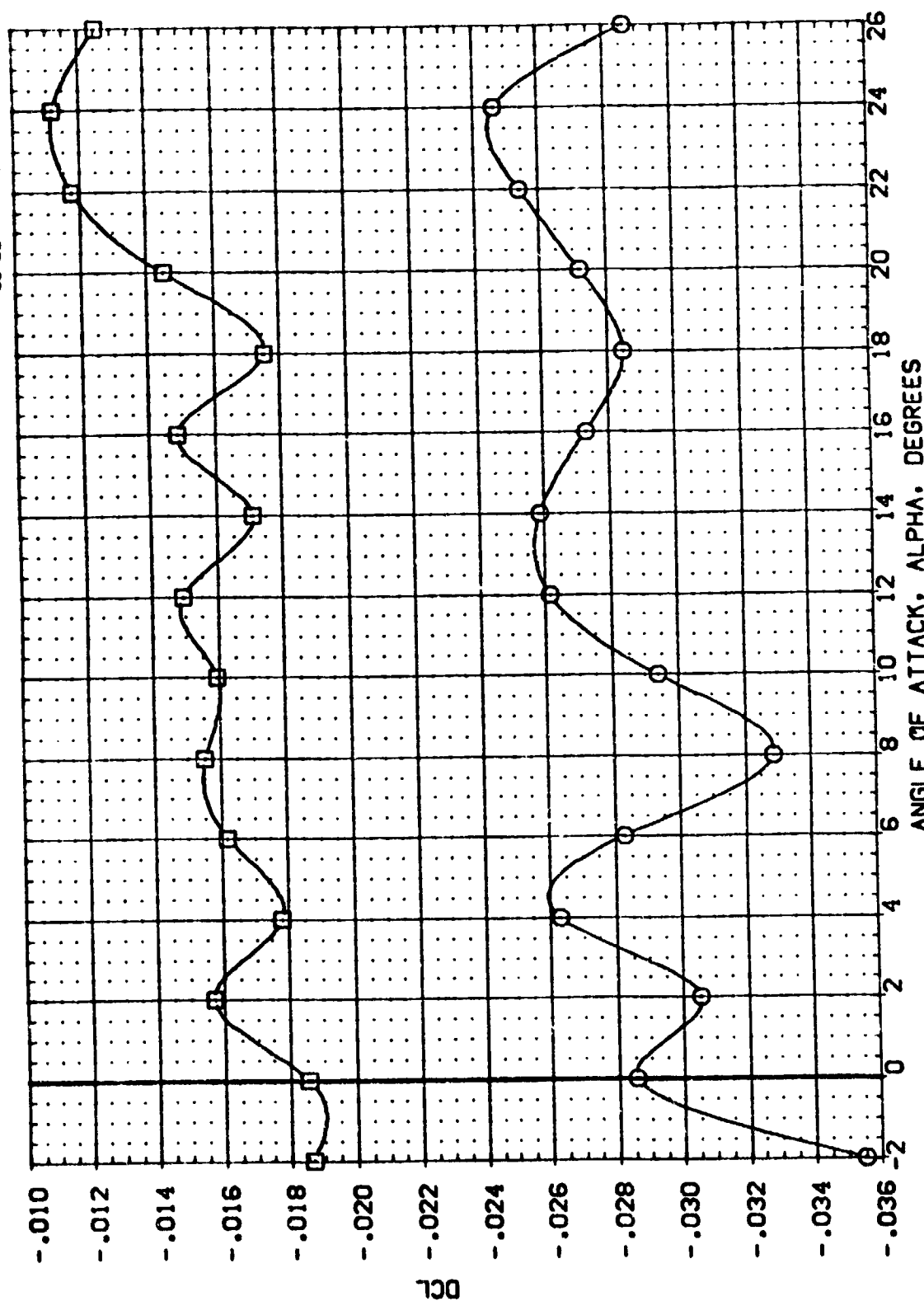


FIG. 14 INCREMENT DUE TO OMS PODS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (RBTVO3)

SYMBOL		MACH		PARAMETRIC VALUES		REFERENCE INFORMATION	
○ □	1.500 2.000	BETA	.000	ELEVEN	.000	SREF	2690.0000
		AIRLN	.000	SPOBRK	54.900	LREF	474.6000
		BOOTLP	-14.200	RUDDER	.000	BREF	936.6800
		ELVN-L	.000	ELVN-R	.000	XMRP	1076.4800
						YMRP	.0000
						ZMRP	.0000
						SCALE	.0150
						SCALE	

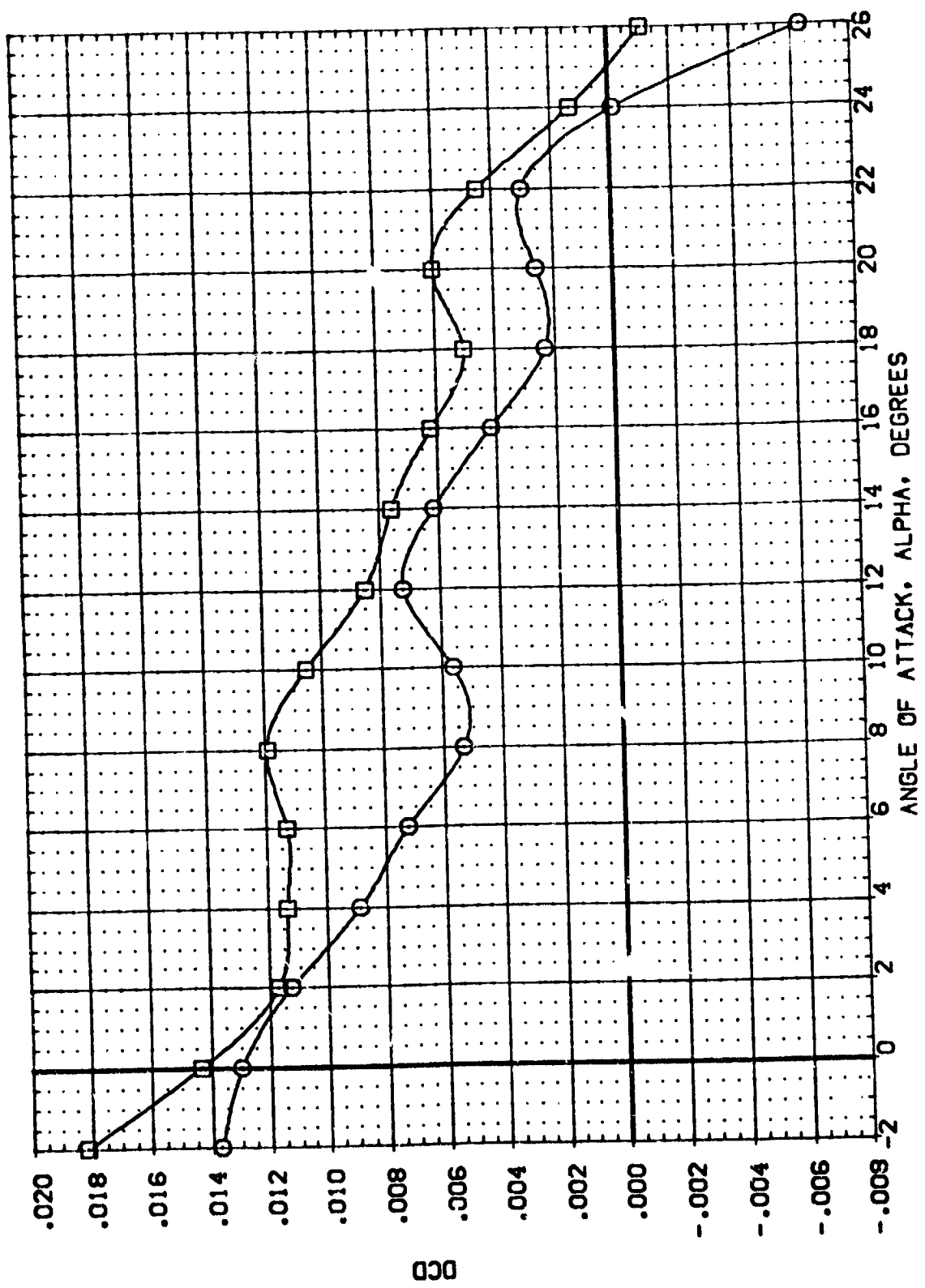


FIG. 14 INCREMENT DUE TO OMS PODS

(R8TV03)

AMES 66-706 GA43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL
○
□

MACH
1.500
2.000

BETA
AILRON
BOOF-LP
ELVN-L

PARAMETRIC VALUES
ELEVON
SPDRK
RUDDER
ELVN-R

.000
54.900
.000
.000

REFERENCE INFORMATION
SREF 2680.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XWPP 1076.4800 IN.
YWPP .0000 IN.
ZWPP 400.0000 IN.
SCALE .0150

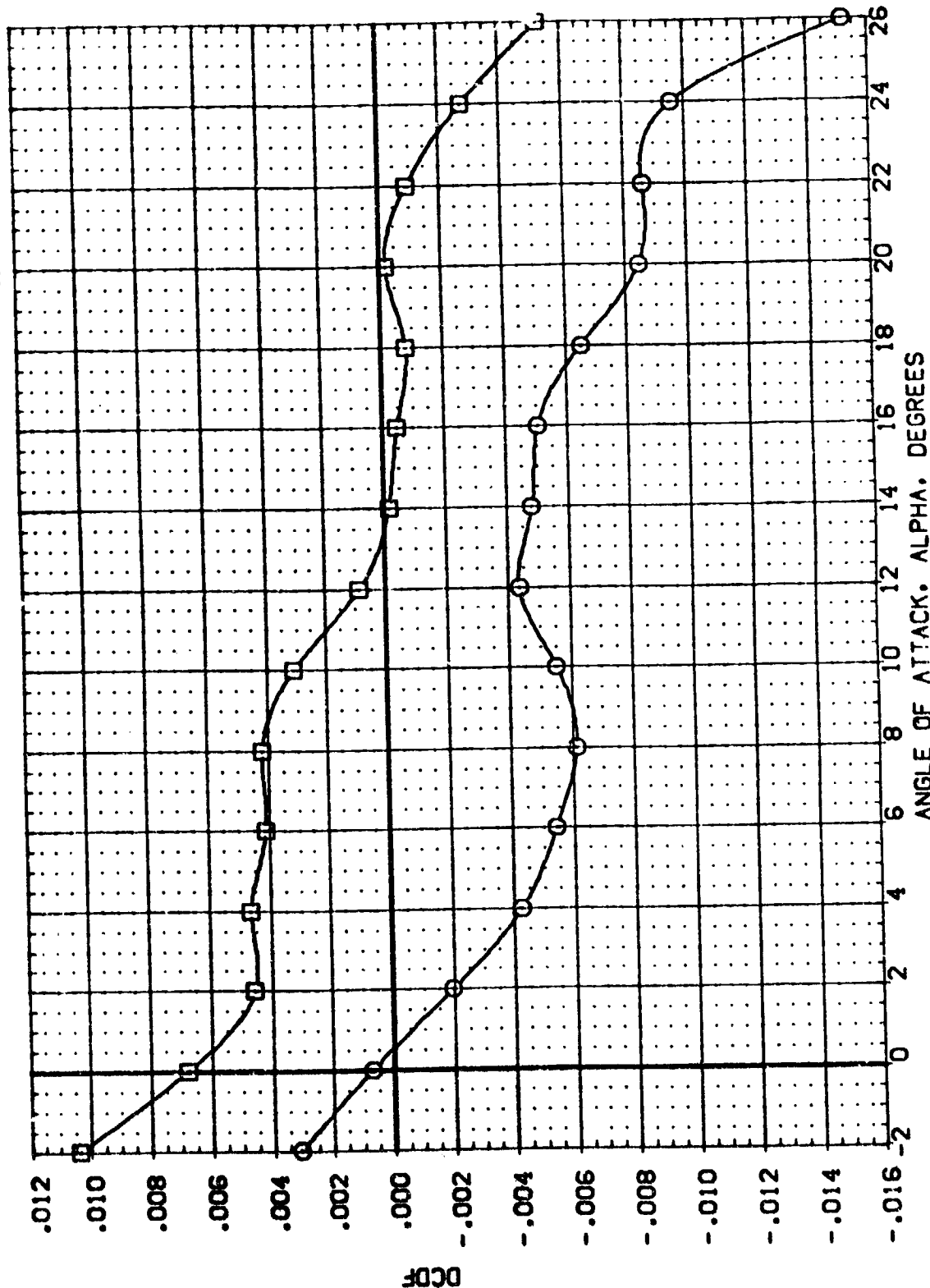


FIG. 14 INCREMENT DUE TO QMS PODS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (R8TV03)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	SPDRK	ELEVON	SREF	2690.0000	SO.FT.	
□	1.500	.000	.000	.000	.000	LREF	474.8000	IN.	
□	2.000	.000	.000	.000	.000	SREF	936.6800	IN.	
		AILRON	-14.200	RUDER	.000	XMRP	1076.4800	IN.	
		BOOFLP	.000	ELVN-R	.000	YMRP	.0000	IN.	
		ELVN-L	.000	ELVN-R	.000	ZMRP	400.0000	IN.	
						SCALE	.0150	SCALE	

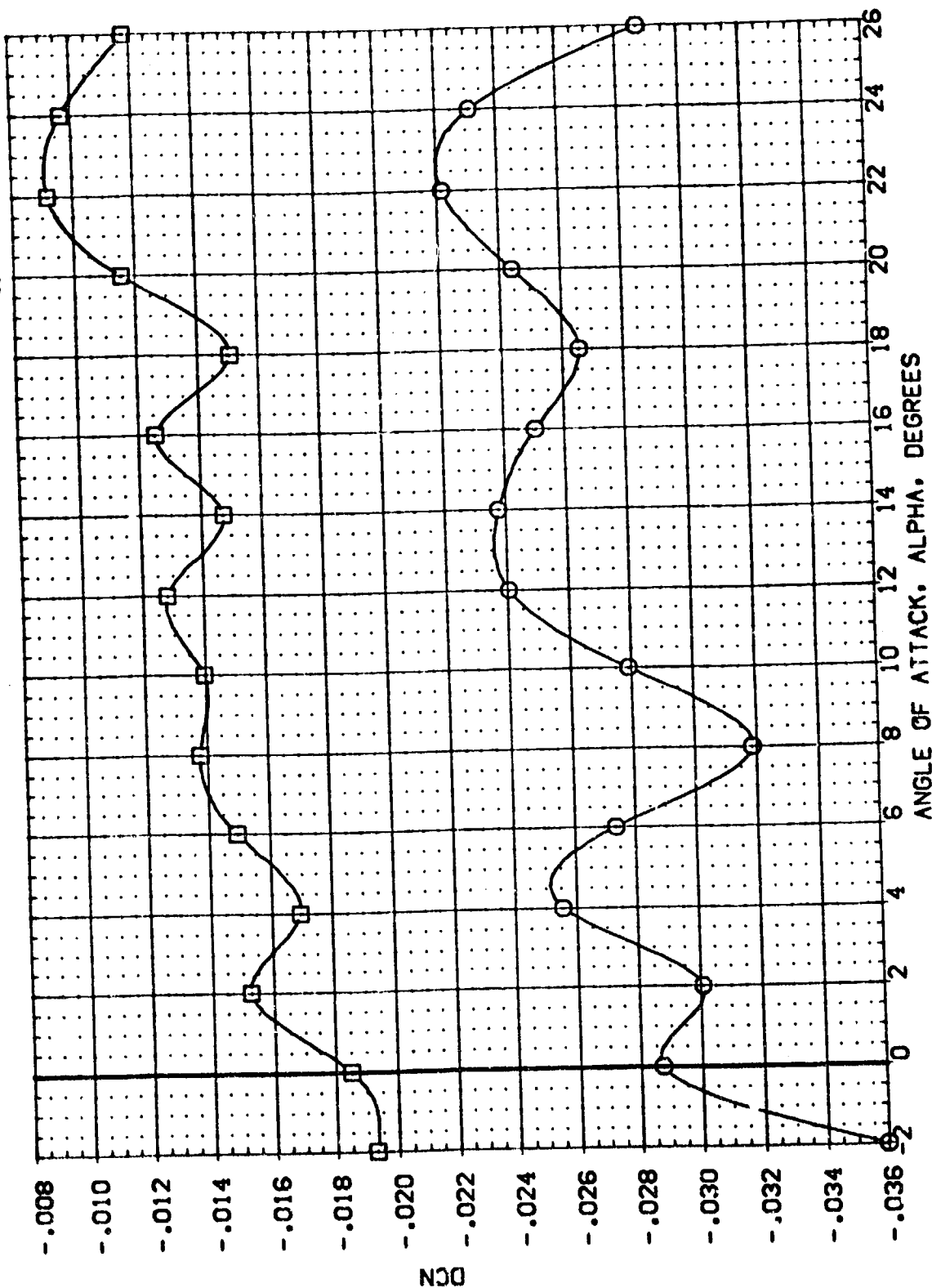


FIG. 14 INCREMENT DUE TO OMS PODS

AMES 66-706 0A43 810 C5 D7 M3 F4 W87E18 V5R5 (R8TV03)

SYMBOL MACH BETA AILRON BOOFPL ELVN-L
1.500
2.000

PARAMETRIC VALUES
ELEVON .000
SPOBRK S4.500
RLODER .000
ELVN-R .000

REFERENCE INFORMATION
SREF 2690.0000
LREF 474.8000
BREF 936.6800
XMRP 1076.4800
YMRP .0000
ZMRP .0000
SCALE .0150

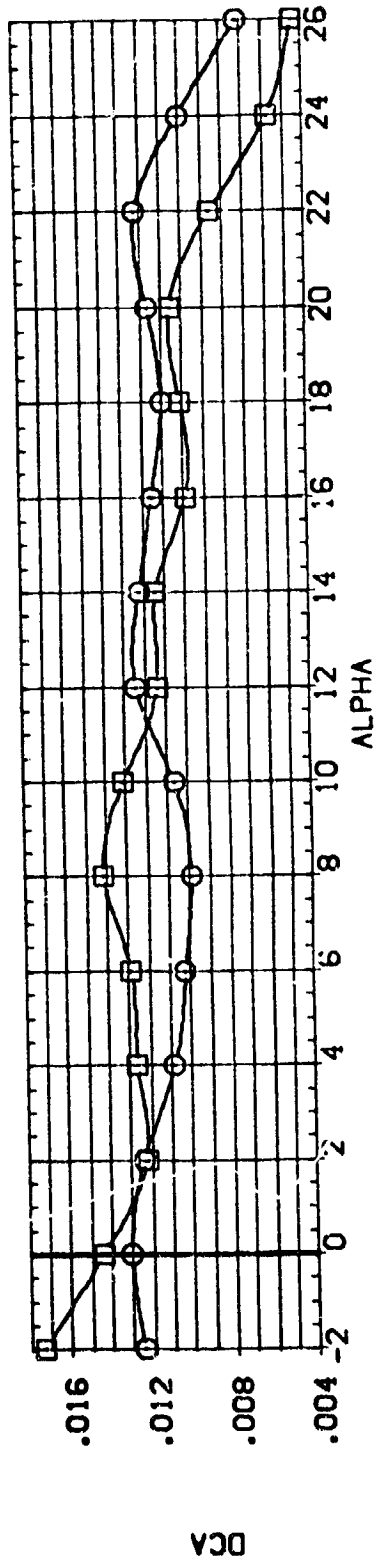
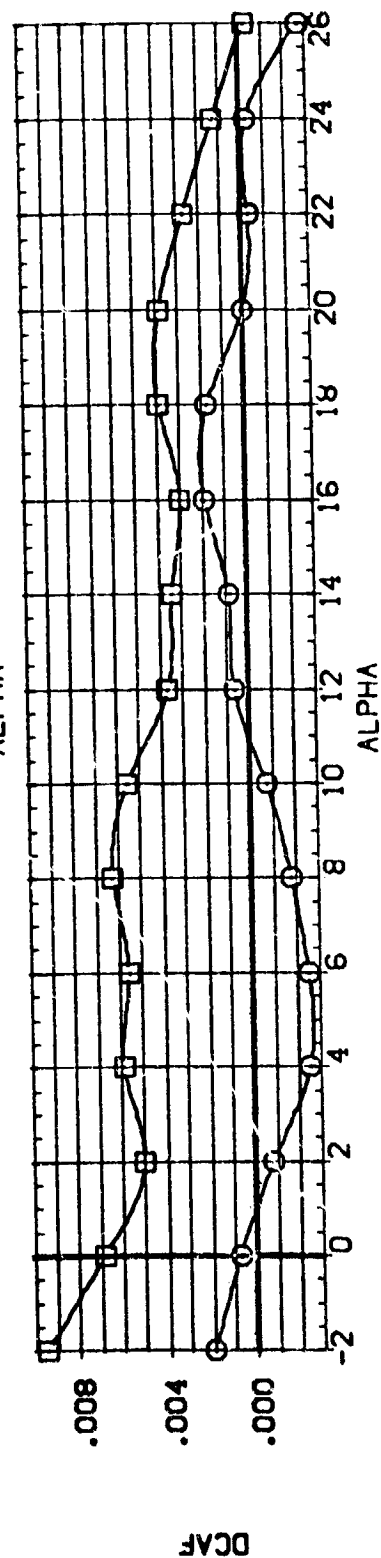
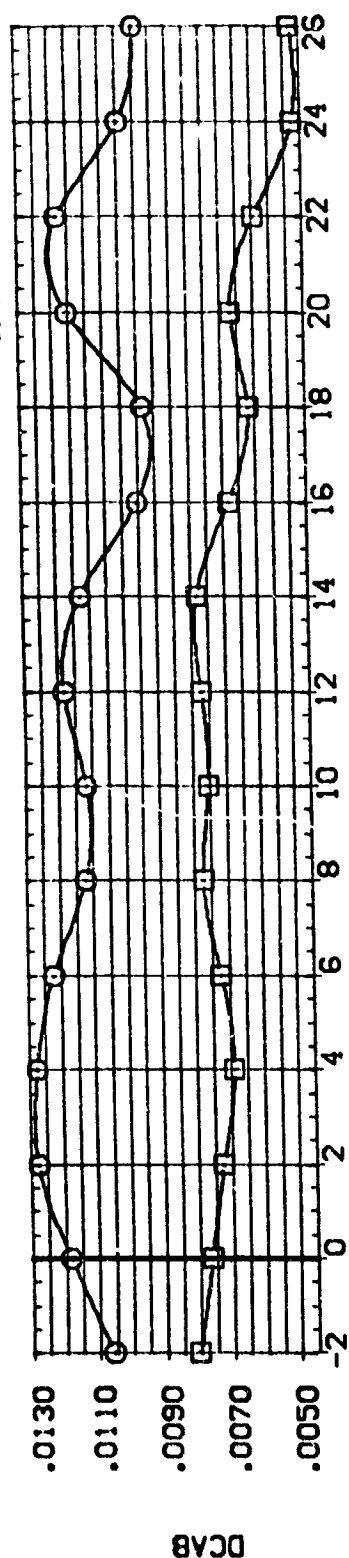


FIG. 14 INCREMENT DUE TO OMS PODS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (RBTVD03)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	1.500	AILRON	.000 ELEVON	SREF 2690.0000
□	2.000	BOOFLP	.000 SPOBRK 54.900	LREF 474.8000
		ELVN-L	-14.200 RUDDER	BREF 936.6800
			.000 ELVN-R	XMRP 1076.4800
				YMRP .0000
				ZMRP 400.0000
				SCALE .0150

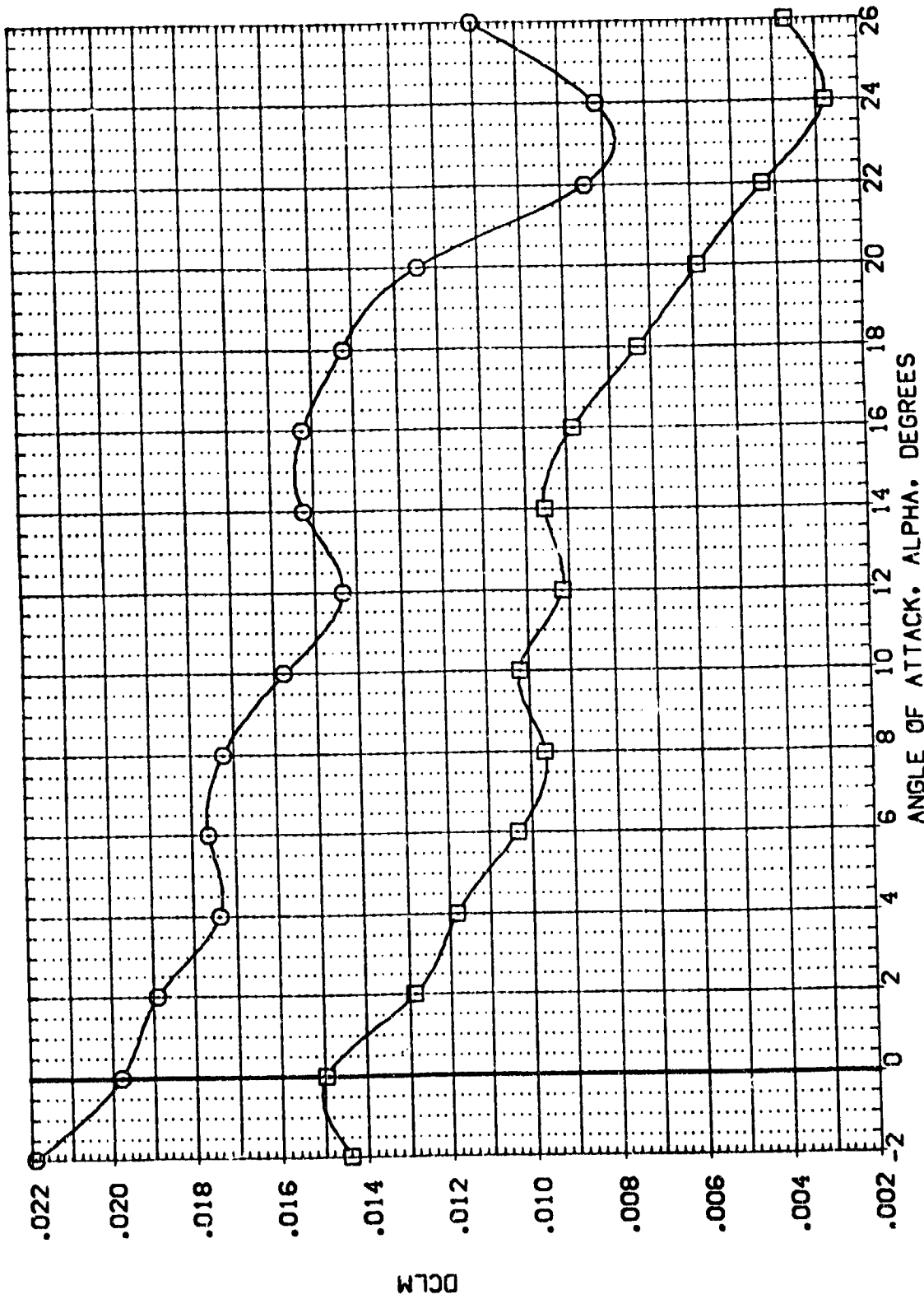


FIG. 14 INCREMENT DUE TO OMS PODS

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (B8TV03)

SYMBOL MACH BETA AILRON BODFLP ELVN-L
 1.500 .000 .000 -14.200 .000
 2.000 .000 .000 .000 .000

PARAMETRIC VALUES

SREF 2690.0 2 50.FT.
 LREF 474.80 IN.
 BREF 936.6800 IN.
 XMRP 1103.2400 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0150

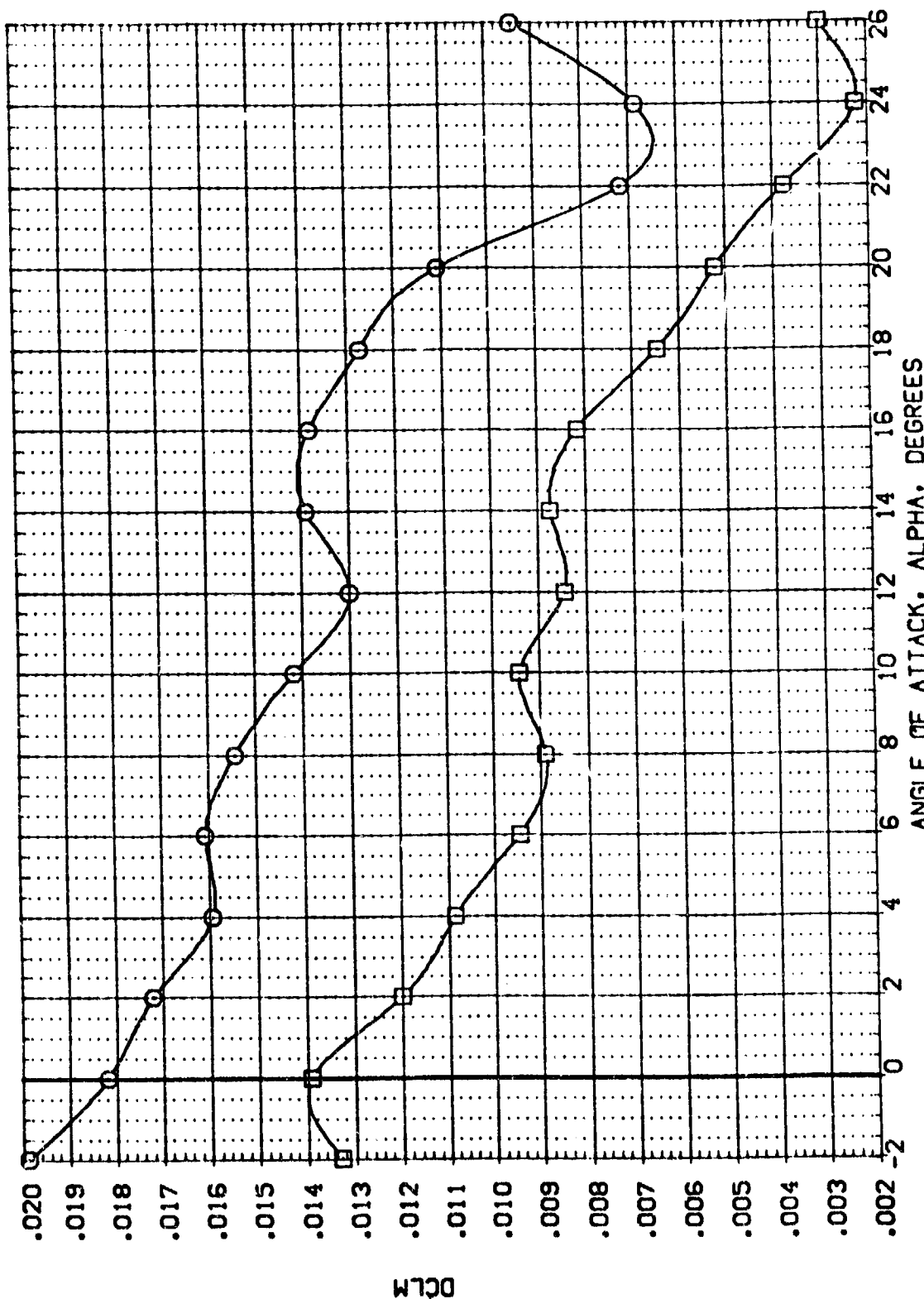


FIG. 14 INCREMENT DUE TO CMS PODS (AFT C.G.)

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 V5R5 (R8TU03)

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON		SREF	LREF	WREF	SCALE
○	.000	.000	.000	.000	2690.0000	474.8000	936.6800	1076.4800
□	10.000	AILRON	SPOBRK	54.500	BREF	YMRP	ZMRP	SCALE
◇	20.000	BOOFLP	-14.200	R_LCER	400.0000	400.0000	400.0000	0.0150
		ELVN-L	.000	ELVN-R				

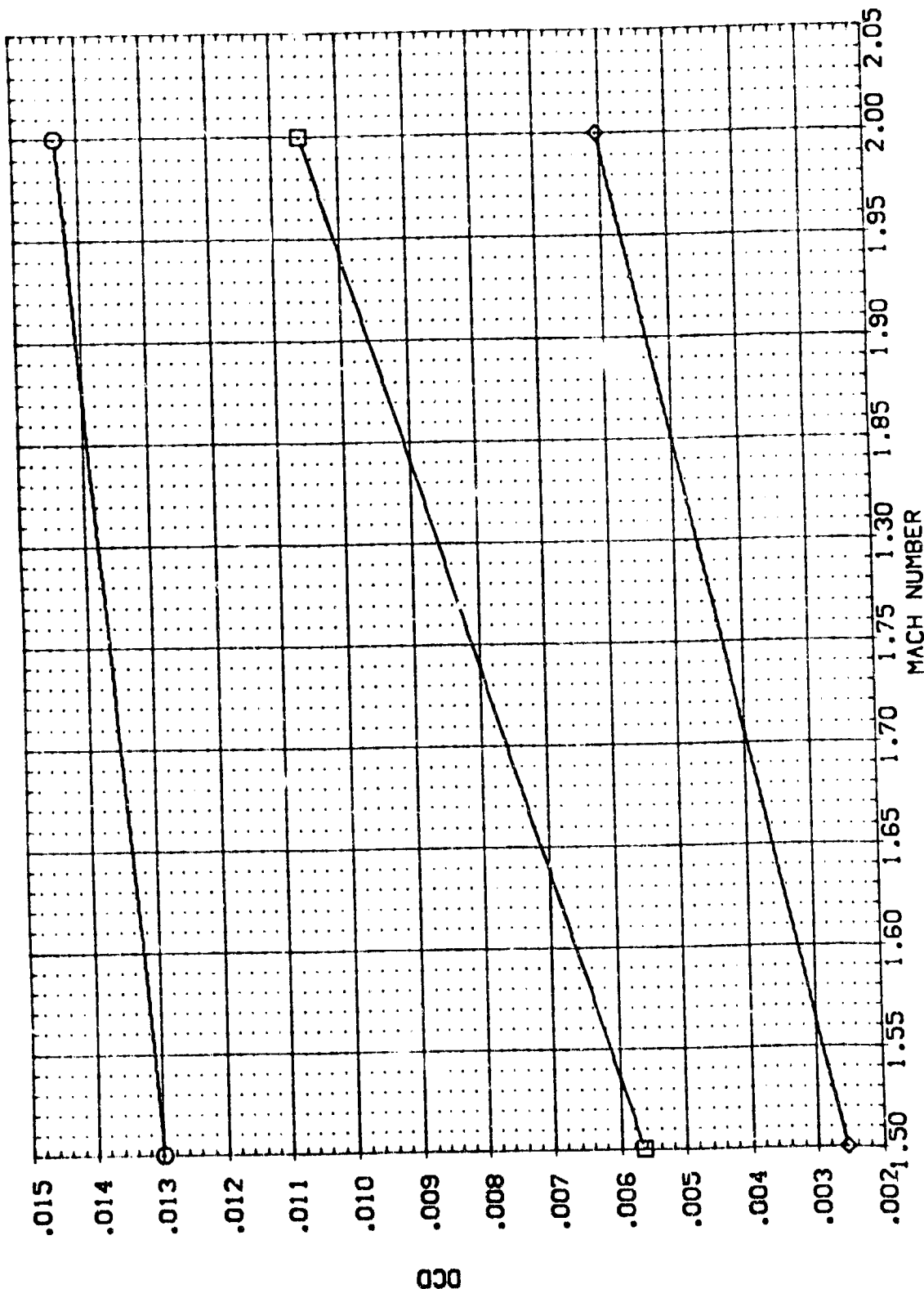


FIG. 14 INCREMENT DUE TO OMS PODS

(RBTUC3)

REFERENCE INFORMATION		SO. FT.
SPRF	2690.0000	N.
DEF	474.8000	N.
BRF	936.6800	N.
XPR	1076.4800	N.
YPR	.0000	N.
ZPR	400.0000	N.
SCALE	.0150	SCALE

SYMBOL	ALPHA	BETA	AIRLON	BOOFLP	ELVN-L	ELVN-R	ELVN	PARAMETRIC VALUES
○	.000	.000	.000	.000	.000	.000	.000	.000
□	10.000	.000	.000	.000	.000	.000	.000	\$4.900
◇	20.000	.000	.000	-14.200	.000	.000	.000	.000

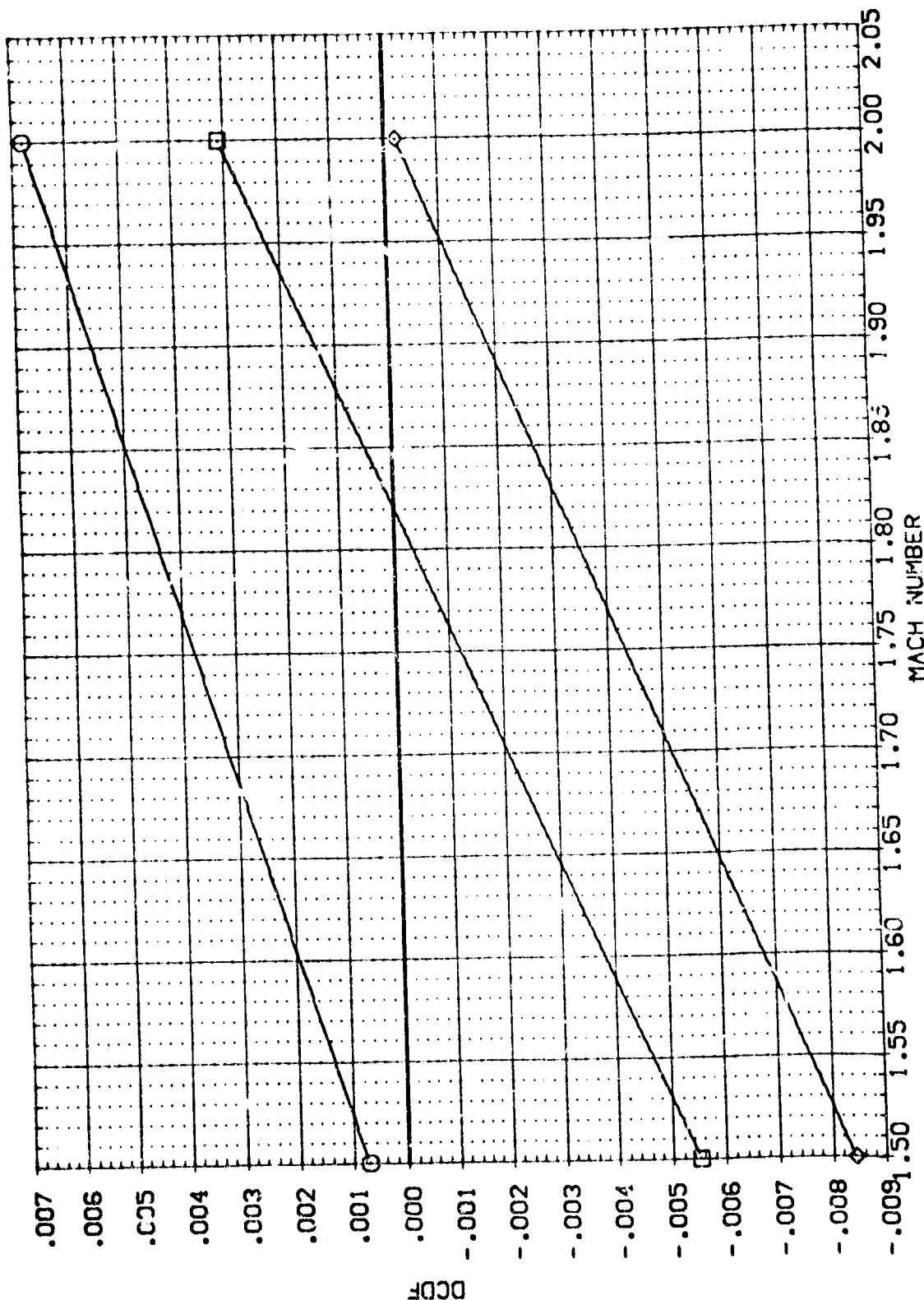


FIG. 14 INCREMENT DUE TO OMS PODS

(R3TU03)

AMES 66-706 0A43 B10 C5 07 M3 F4 W87E18 VSR5

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	BETA	ELEVON	ELEVON	SREF	LREF	WREF	SCALE
0	.000	.000	.000	.000	2690.0000	174.8000	1076.0000	400.0150
1	10.000	000FLC	-14.200	ELVN-R	174.8000	1076.0000	400.0150	400.0150
2	20.000	ELVN-L	.000	ELVN-R	174.8000	1076.0000	400.0150	400.0150

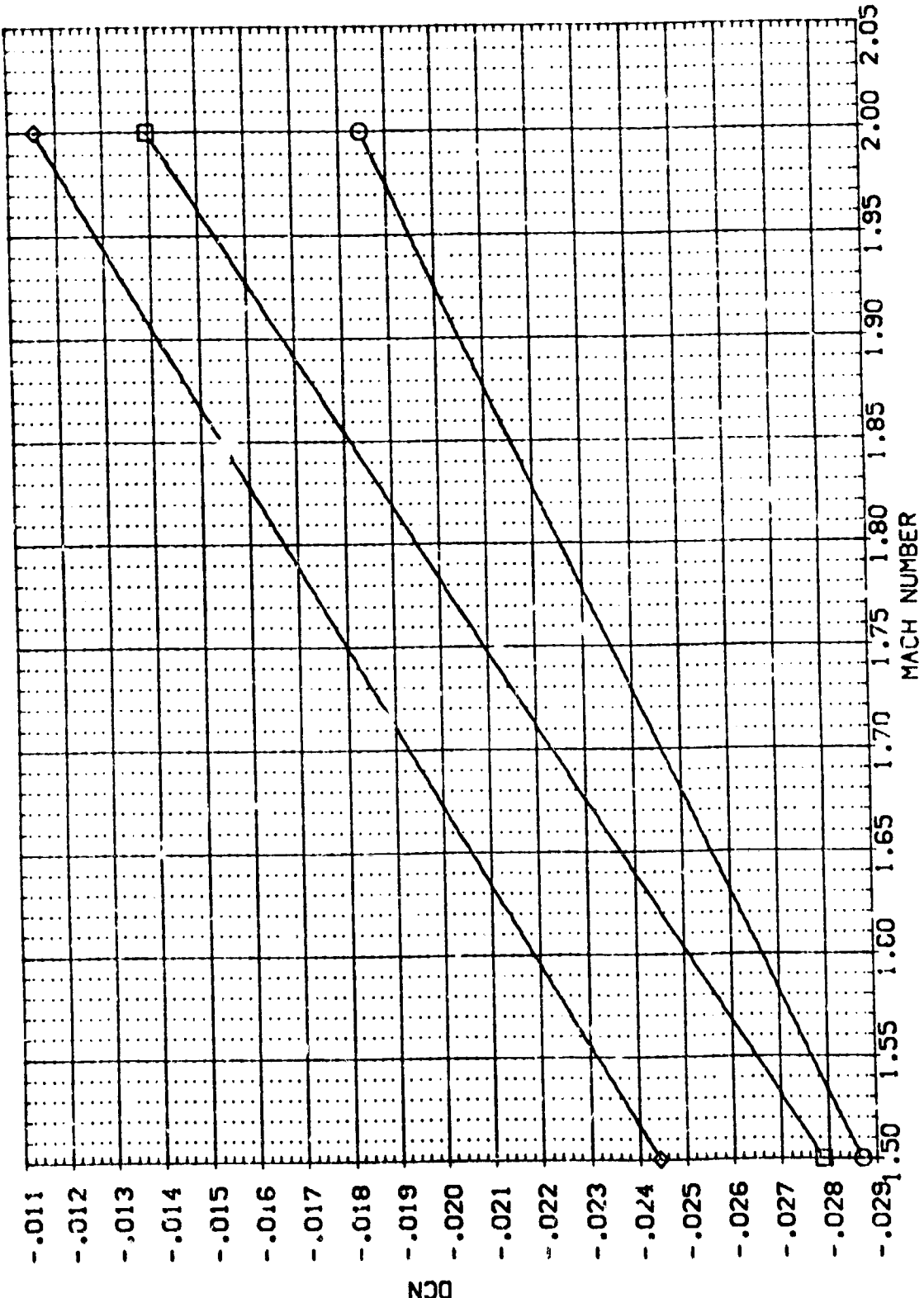


FIG. 14 INCREMENT DUE TO OMS PODS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5 (RBTU03)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
□	.000	.000	ELEVON	SREF 2690.0000
◇	10.000	.000	SPOSRK	LREF 474.8000
	20.000	-14.200	RJCKER	BREF 936.6800
		.000	ELVN-L	X-RRP 1076.4800
		.000	ELVN-R	Y-RRP .0000
		.000		Z-RRP 400.0000
				SCALE .0150

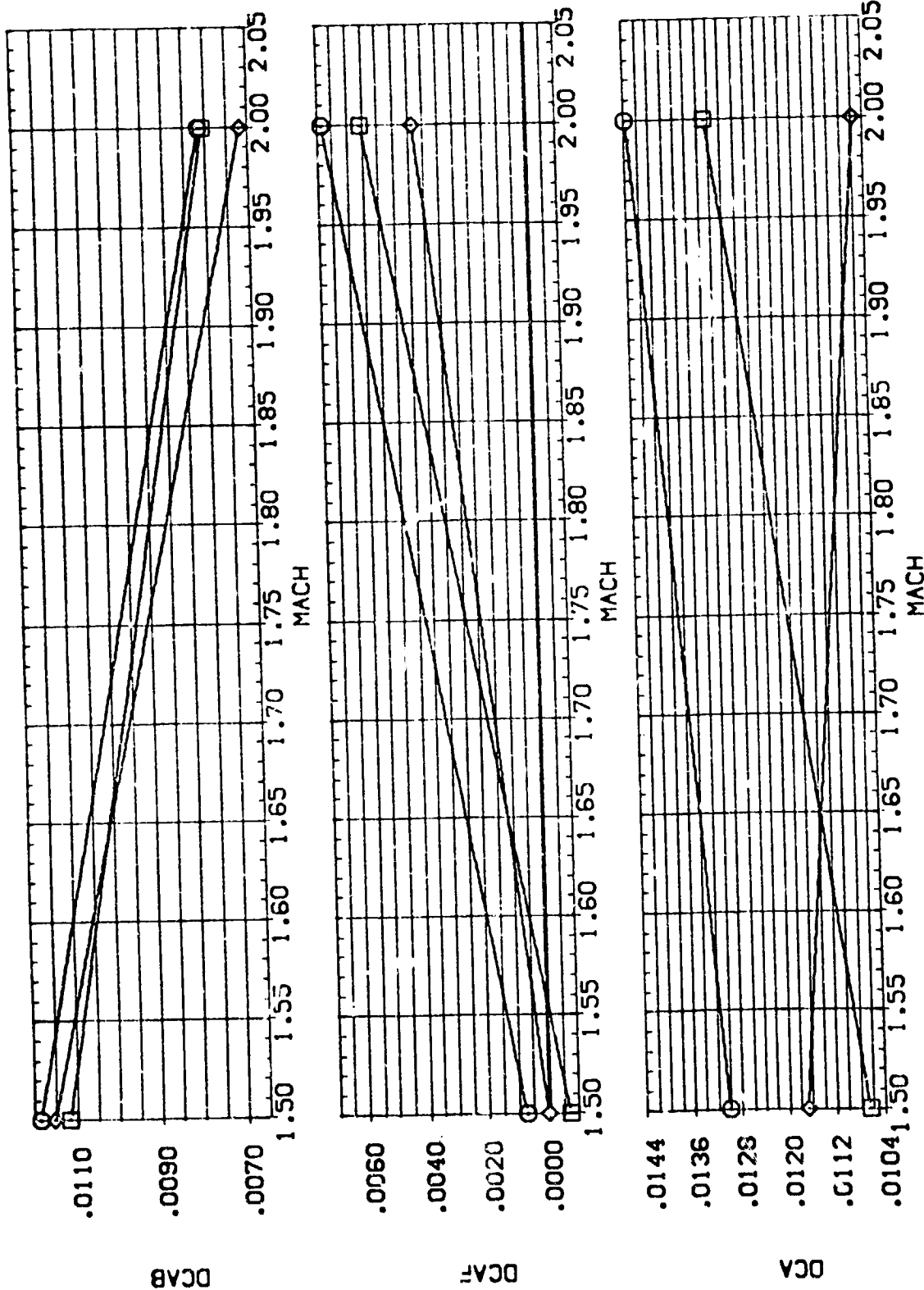


FIG. 14 INCREMENT DUE TO OMS PODS

AMES 66-706 0A43 B10 C5 07 M3 F4 W87E18 V5R5 (RBTJ03)

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES		REFERENCE INFORMATION		
							50.FT.
OLIO◇	.000		.000	ELEVON	SREF	2690.0000	
	.000	AILRON	.000	SPOBRK	LREF	474.8000	IN.
	10.000	BOOTLP	.000	RUDDER	BREF	936.6800	IN.
	20.000	ELEV-L	-14.200	ELEV-R	XPRP	1076.4800	IN.
			.000		YPRP	0.0000	IN.
					ZPRP	400.0000	IN.
					SCALE	.0150	SCALE

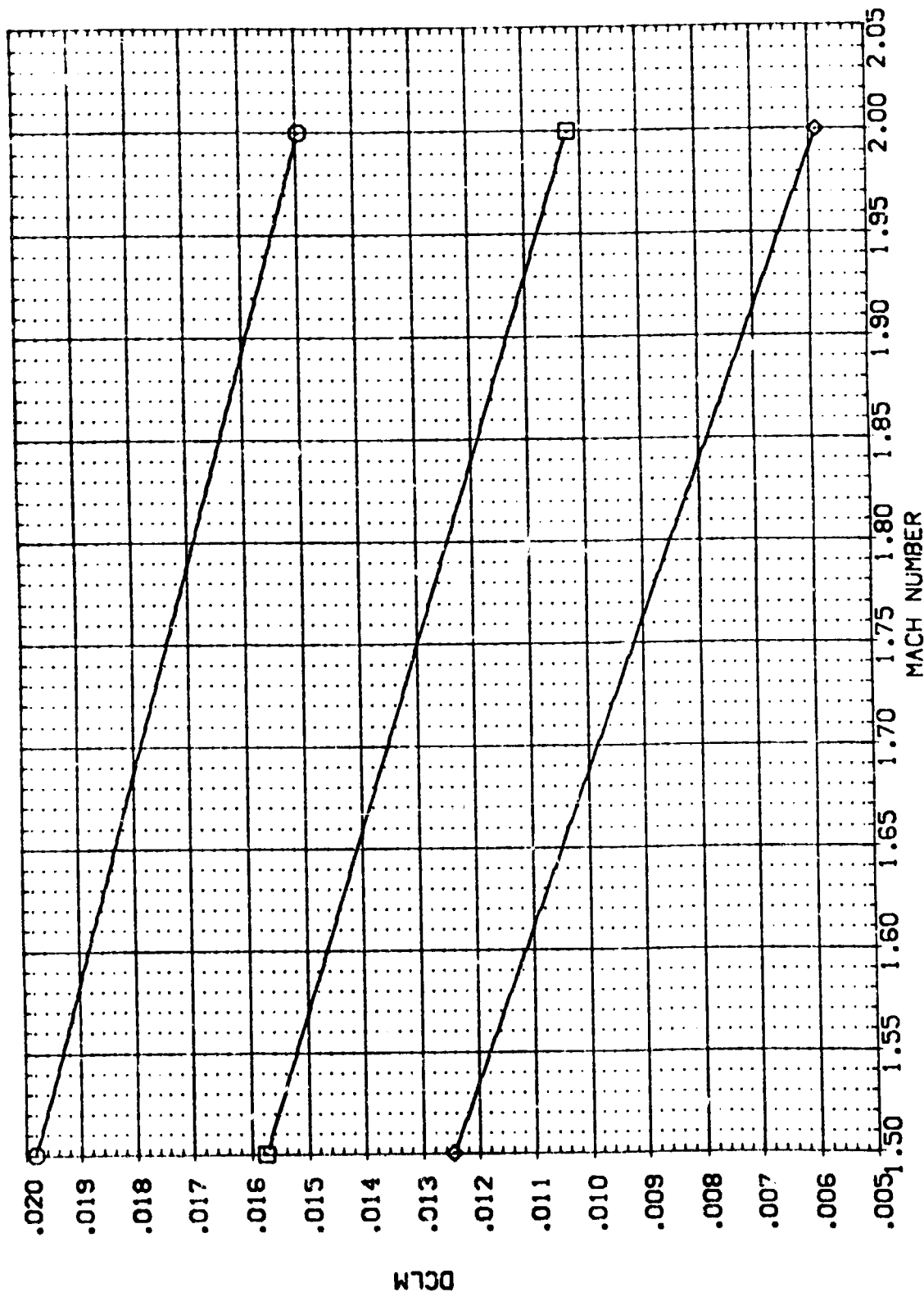


FIG. 14 INCREMENT DUE TO OMS PODS



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (88TJC3)

SYMBOL		PARAMETRIC VALUES		REFERENCE INFORMATION	
ALPHA	BETA	ELEVON	ELEVON	SREF	SO.FT.
.000	.000	.000	.000	LREF	IN.
10.000	AILRON	.000	SPOBRK	BREF	IN.
20.000	BODFLP	-14.200	RUDER	XMRP	IN.
	ELVN-L	.000	ELVN-R	YMRP	IN.
				ZMRP	IN.
				SCALE	SCALE

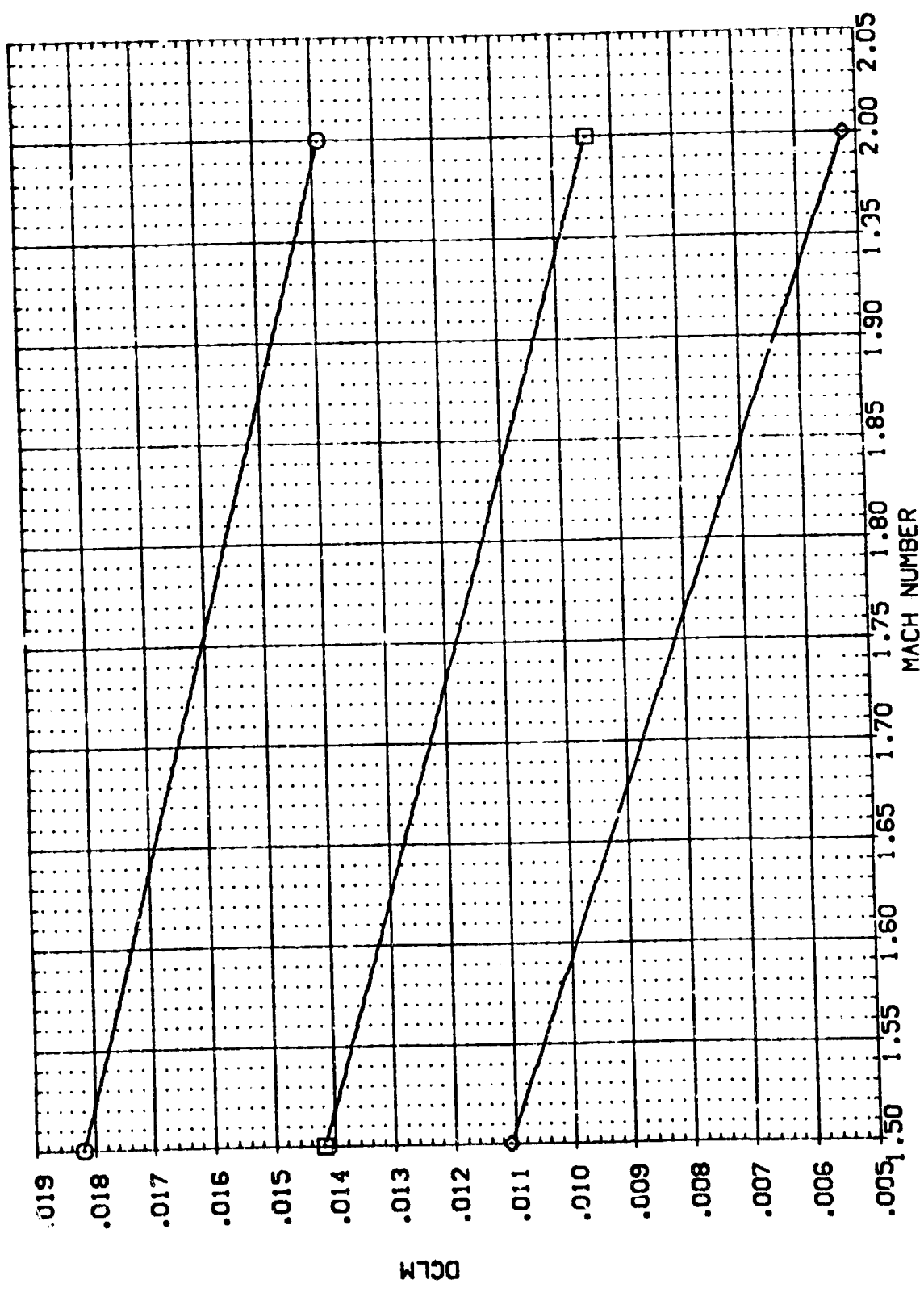


FIG. 14 INCREMENT DUE TO QMS PODS (AFT C.G.)

DATA SET SYMBOL										CONFIGURATION DESCRIPTION										REFERENCE INFORMATION									
[AB:004]										AVES 66-706 0A43 810 CS D7 M3 F4 087E18 VSRS										SREF 2690.0000 SQ.F.T.									
[AB:021]										AVES 66-706 0A43 810 CS D7 M3 F4 087E18 VSRS										LREF 474.8000 IN.									
																				BREF 936.6900 IN.									
																				XTRP 1076.1800									
																				YTRP .0000									
																				ZTRP .0000									
																				SCALE .0150									

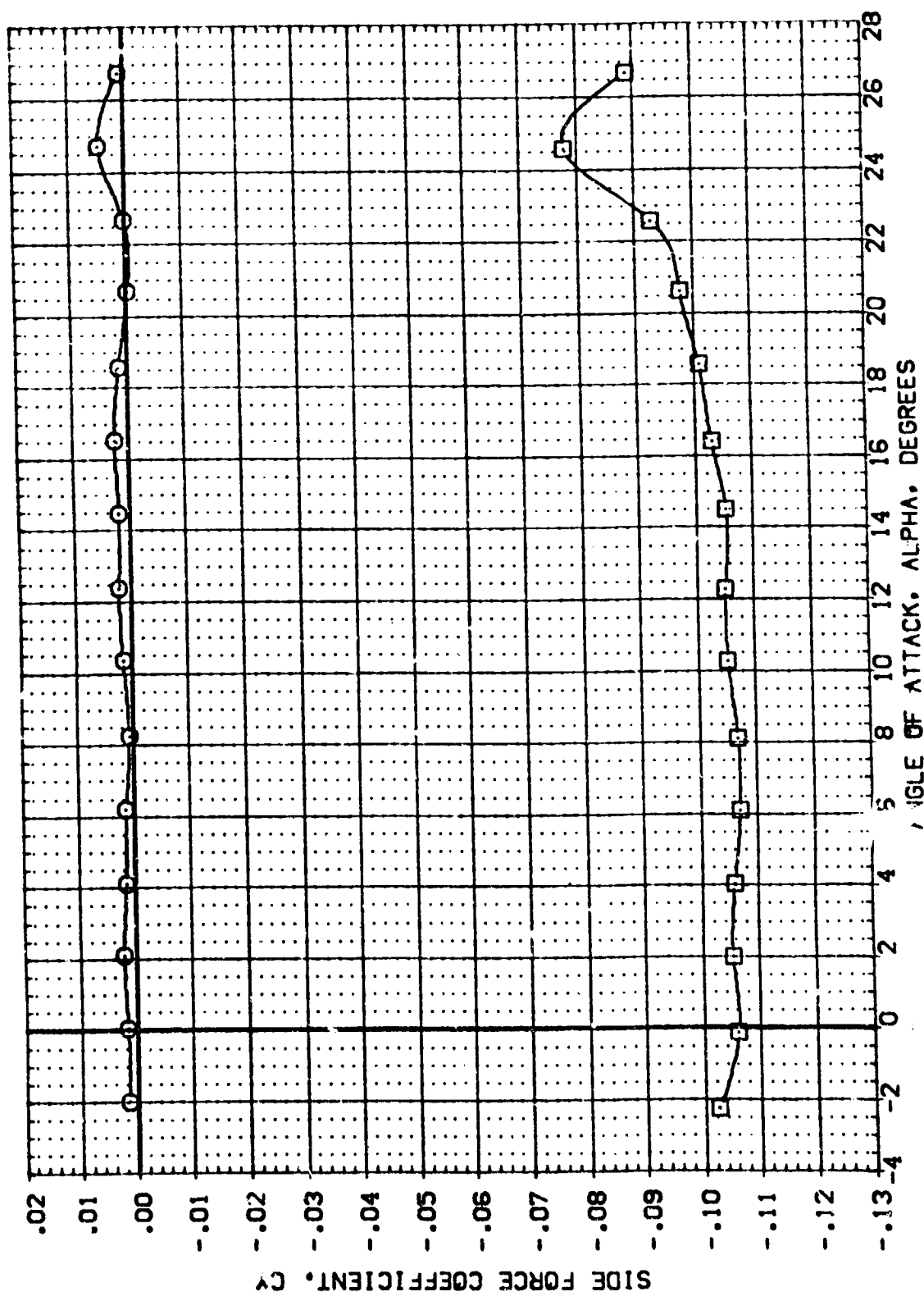


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

AB-004: ☐ AVES 66-705 DA13 B10 CS D7 M3 F4 V87E18 VS75 SREF 2690.0000 SQ.FT.

AB-002: ☐ AVES 66-705 DA13 B10 CS D7 M3 F4 V87E18 VS75 LREF 474.8000 IN.

BETA 5.000 800FLP 54.900 54.900 RUDER .000 .000

YREF 936.6000 IN.

XREF 1076.4800 IN.

YMRP 400.0000 IN.

ZMRP 400.0000 IN.

SCALE .0150

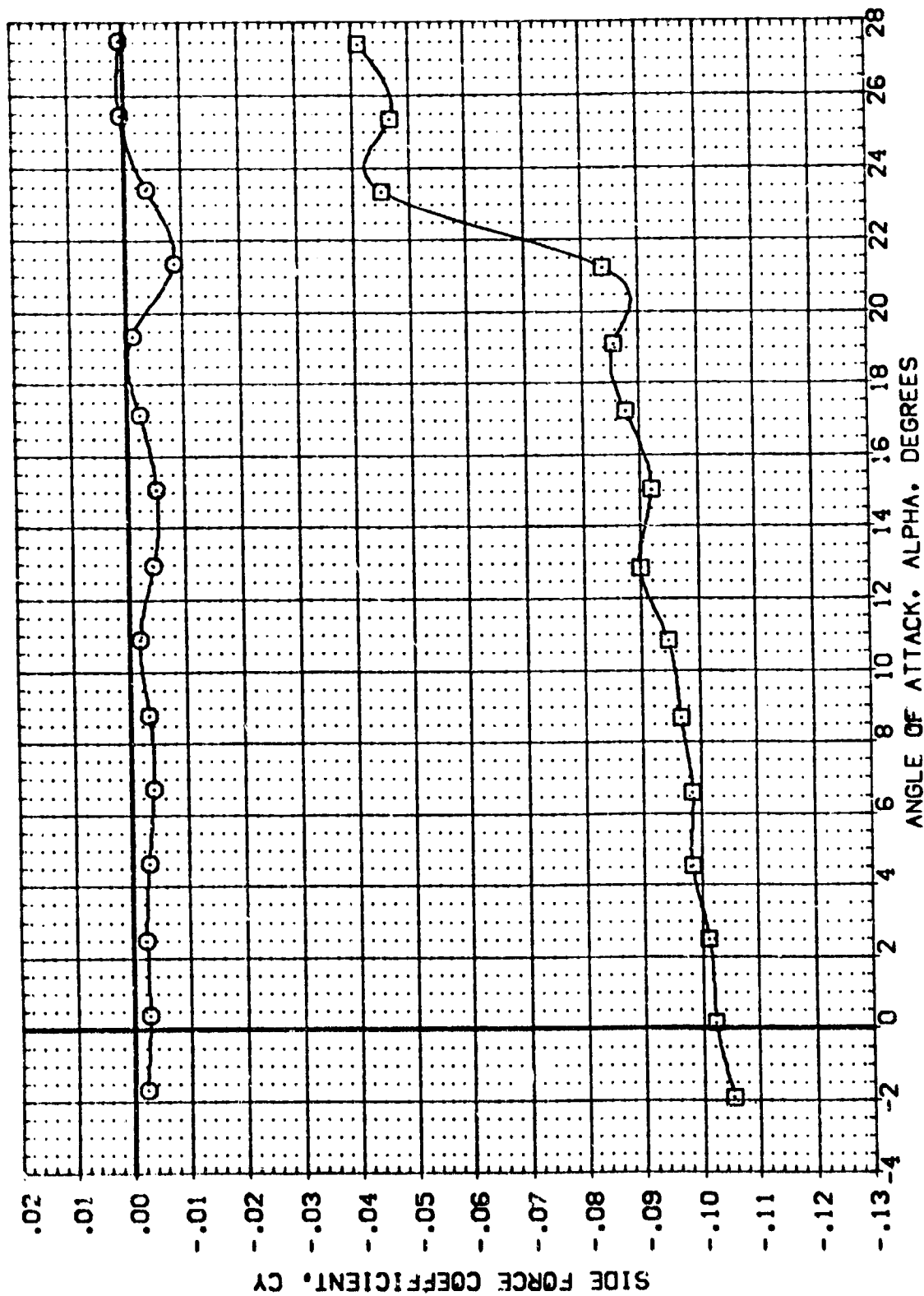


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(C)MACH = 1.20

DATA SET SYMBOL: [ABT004] [ABT021]
 CONFIGURATION DESCRIPTION:
 APES 66-70S DM3 B10 CS 07 M3 F4 V87E18 VSRS
 APES 66-70S DM3 B10 CS 07 M3 F4 V87E18 VSRS

BETA: .000
 5.000
 800FLP: -14.200
 -14.200
 SP0BRK: 54.900
 54.900
 RUDDER: .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8000
 BREF: 936.6800
 XPRP: 1076.1800
 YPRP: .0000
 ZPRP: 400.0000
 SCALE: .0150

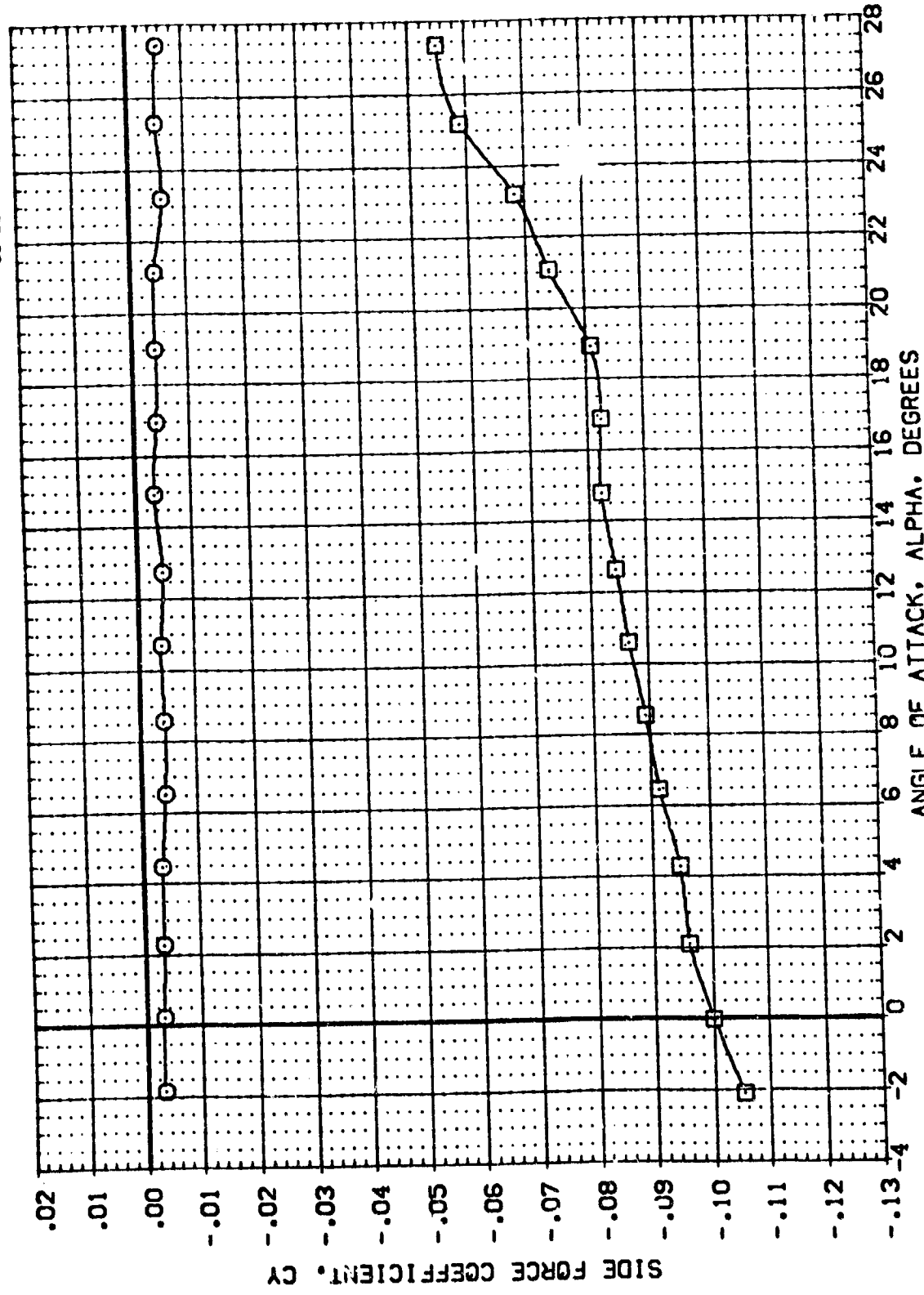


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(O)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		BODY FLIP		SPODBK		RUDDER		REFERENCE INFORMATION	
ABT004		AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS		.000		-14.200		54.900		.000		SREF 2690.0000 SQ.FT.	
ABT021		AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS		5.000		-14.200		54.900		.000		LREF 474.8000 IN.	
												BREF 936.6800 IN.	
												XREF 1076.4800 IN.	
												YREF .0000 IN.	
												ZREF 400.0000 IN.	
												SCALE .0150	

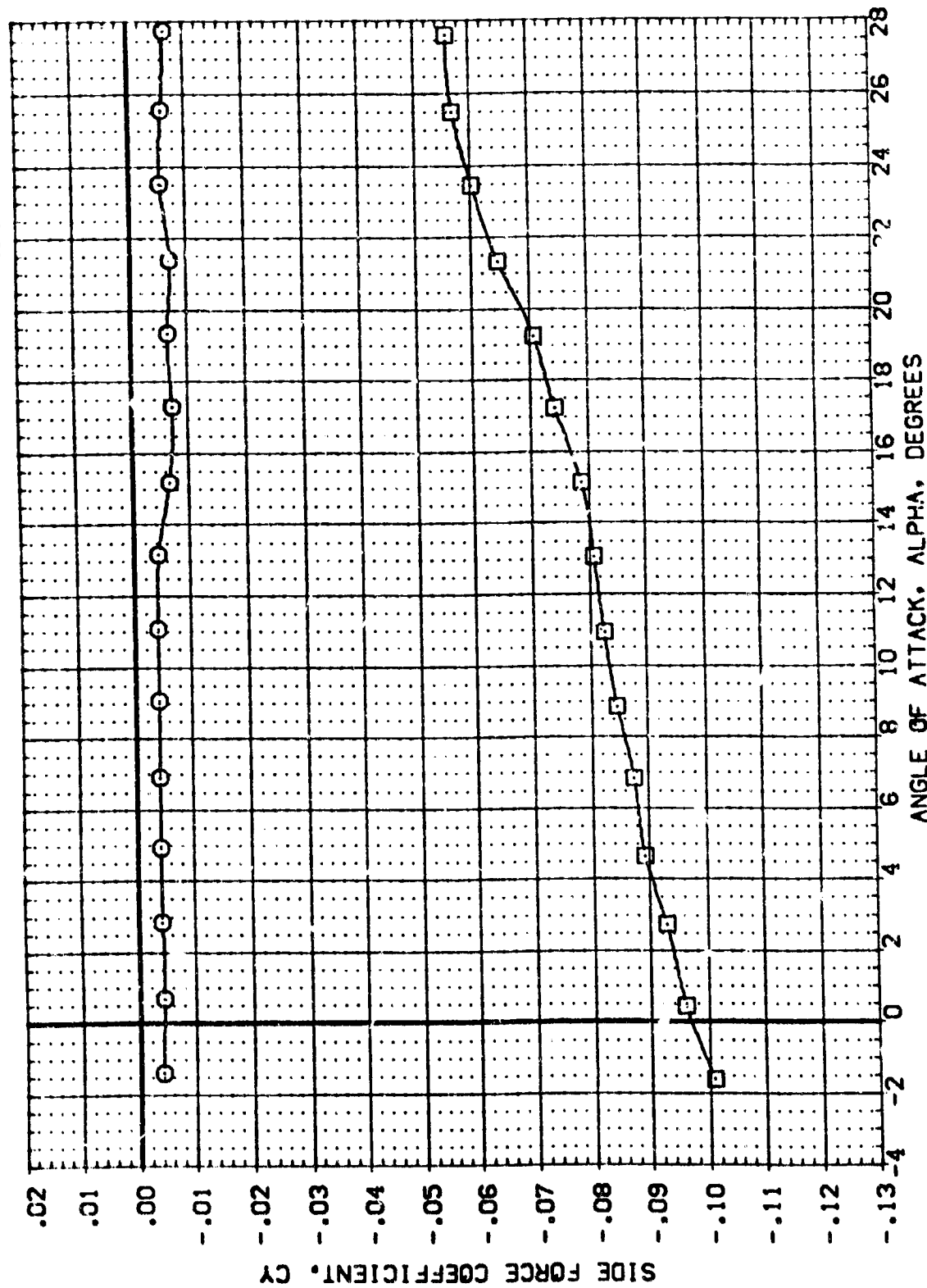


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(MACH = 2.00)

DATA SET SYMBO. CDPF I GURATION DESCRIPTION
 (ABT004) [] ARES 65-706 0A43 810 CS D7 H3 F4 V87E18 V5R5
 (ABT021) [] ARES 65-706 0A43 810 CS D7 H3 F4 V87E18 V5R5

BETA BODYLP SP03RK RUDDER
 .000 -14.200 54.900 .000
 5.000 -14.200 54.900

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

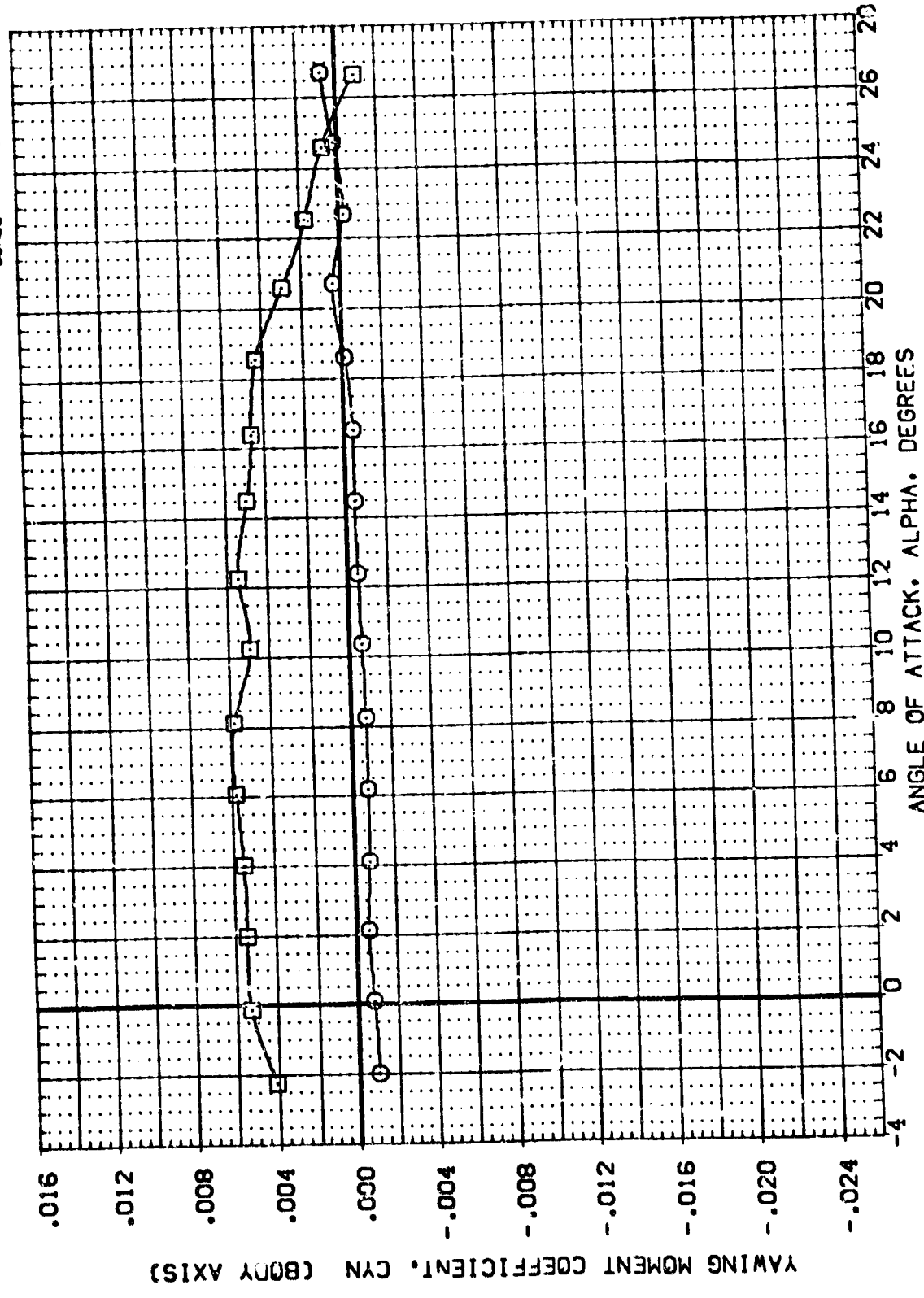


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	SPDRK	RUDER	REFERENCE INFORMATION
(A3'04)	AMES 66-706 0A13 B10 CS 07 M3 F4 V87E18 VSR5	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(A3'02)	AMES 66-706 0A13 B10 CS 07 M3 F4 V87E18 VSR5	5.000	54.900	.000	LREF 474.8000 IN.
					BREF 936.6800 IN.
					XGRP 1076.4800 IN.
					YGRP 2000 IN.
					ZGRP 400.0000 IN.
					SCALE .0150

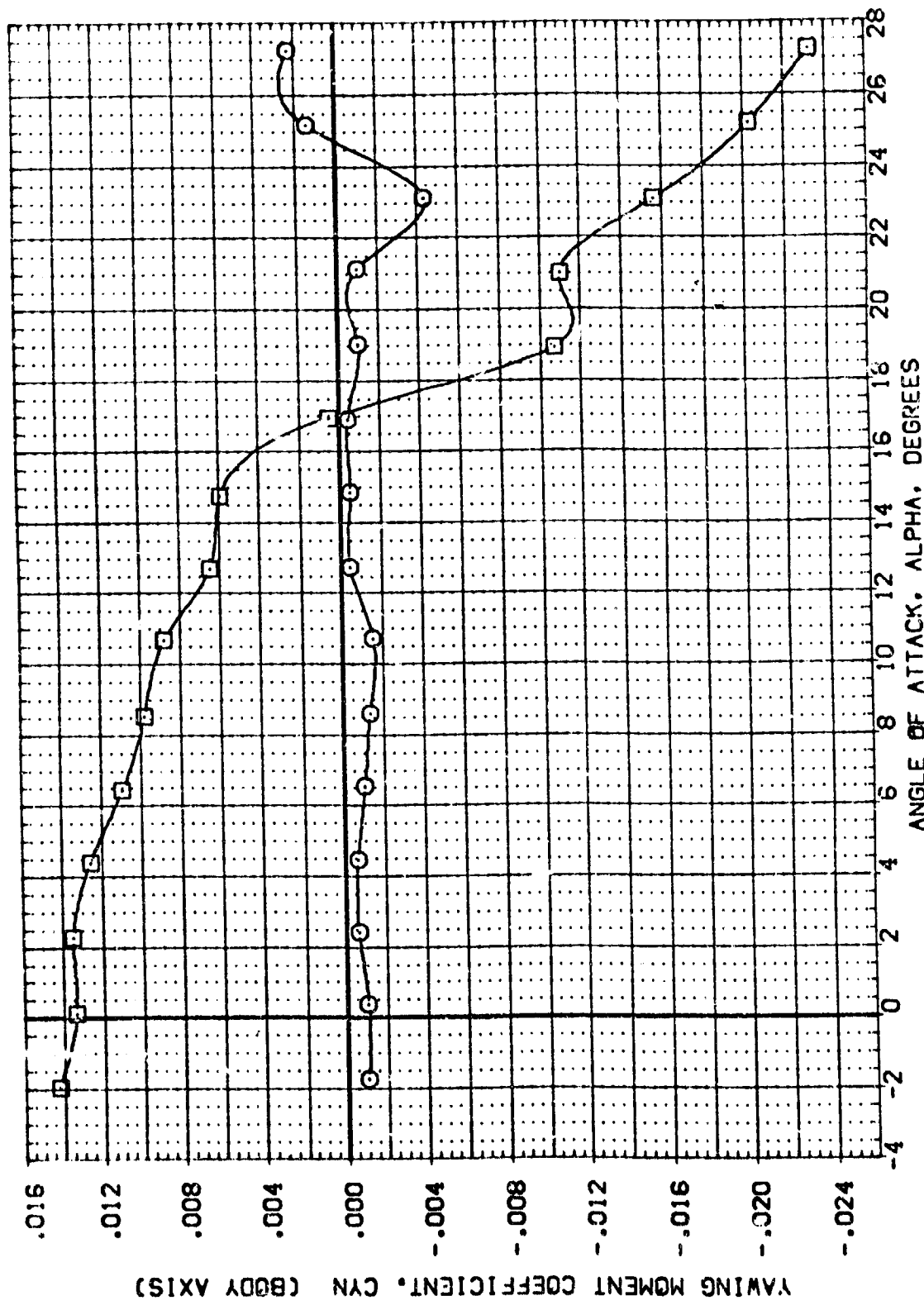


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(B)MACH = .91



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BODY L.P.	SPD BRK	WLODR	REFERENCE INFORMATION
[ABT004]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	.000	-14.200	54.900	.000	SREF 2690.0000 SQ.FT.
[ABT021]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-14.200	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150

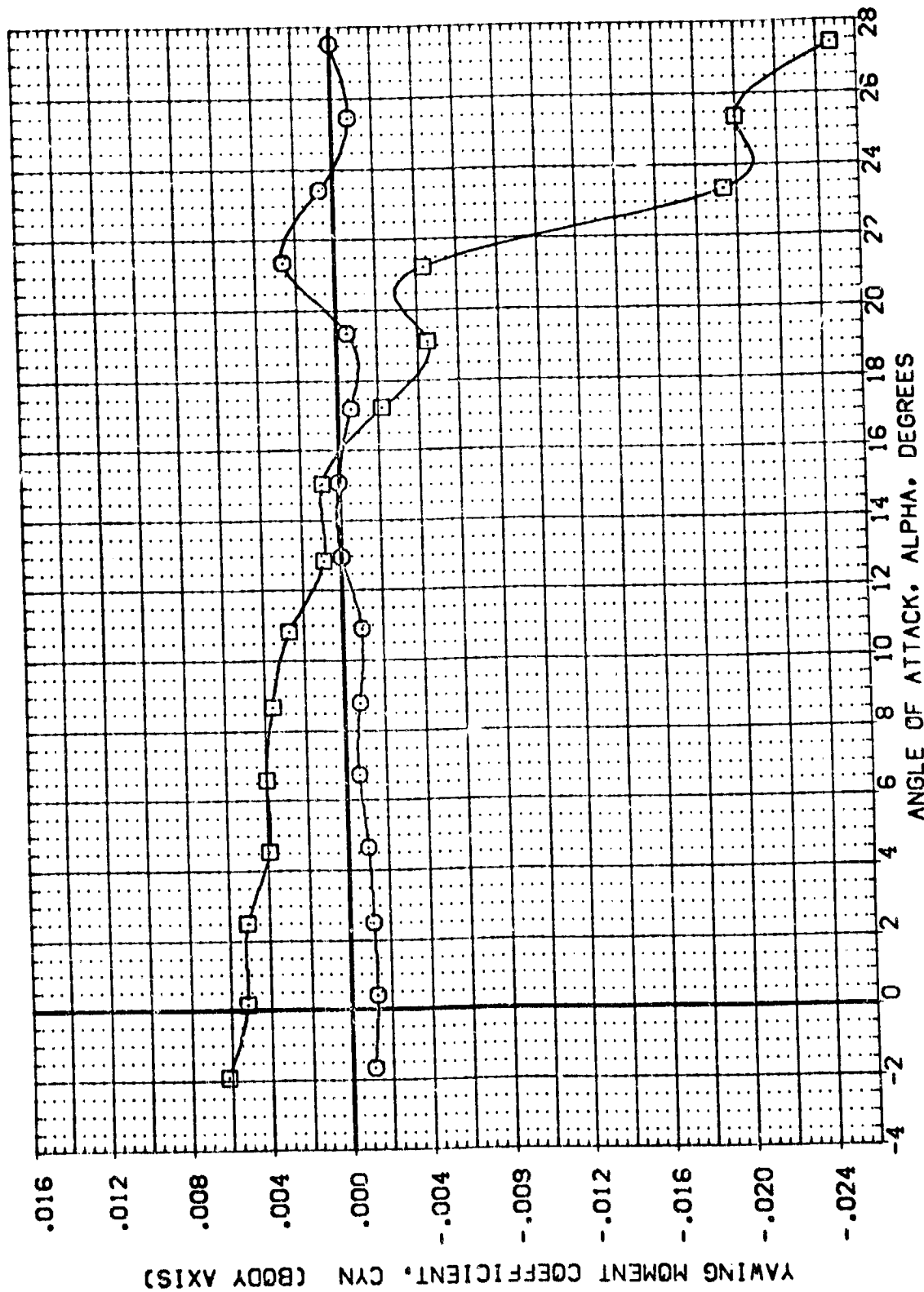


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOOFILP	SPOBKK	RUDROR	REFERENCE INFORMATION
[A3T004]	AVES 65-706 0A13 B10 C5 D7 M3 F4 V87E18 VSRS	.000	-14.200	54.900	.000	SREF 2690.0000 SQ.FT.
[AST021]	AVES 65-706 0A13 B10 C5 D7 M3 F4 V87E18 VSRS	5.000	-14.200	54.900	.000	LREF 474.8000 SREF 936.5500 XMRP 1076.4800 YMRP .0000 ZMRP .0000 SCALE 11.50

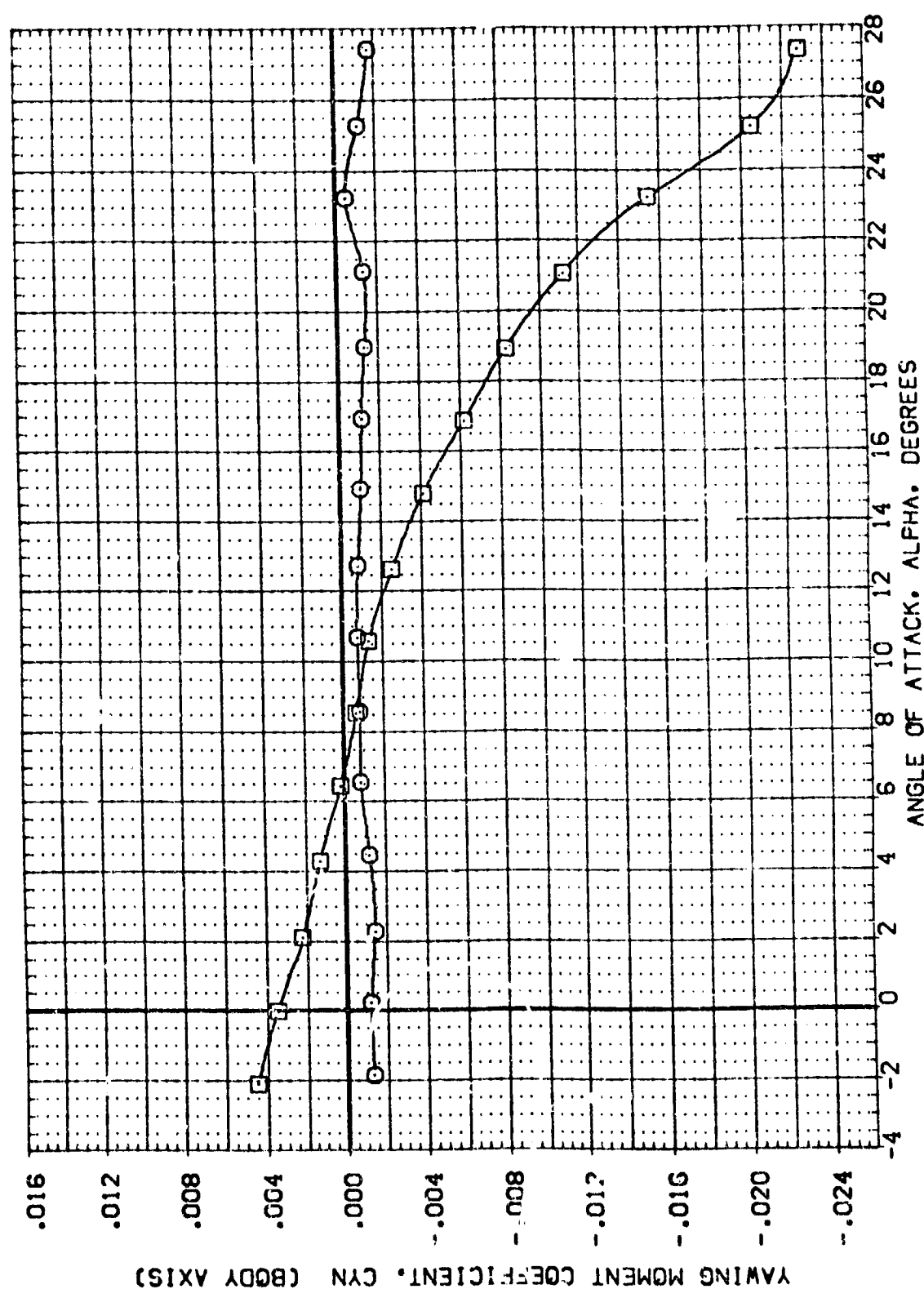


FIG. 15. LATERAL DIRECTIONAL YAW POLAR

$$(D)MACH = 1.5($$



C-6

DATA SET SYMBOL: (81024) (AS121)

CONFIGURATION DESCRIPTION: AXES 66-706 0A43 B10 CS D7 PG F4 V87E18 VSRS
 AXES 66-706 0A43 B10 CS D7 PG F4 V87E18 VSRS

BETA: .003
 5.000

BOOF LP: -14.200
 -14.200

SPDRX: .000
 .000

RUDER: .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.7000 50. FT.
 LREF: 474.6700
 BREF: 936.6870
 XREF: 1076.4800
 YREF: .0000
 ZREF: .0000
 SCALE: .0150

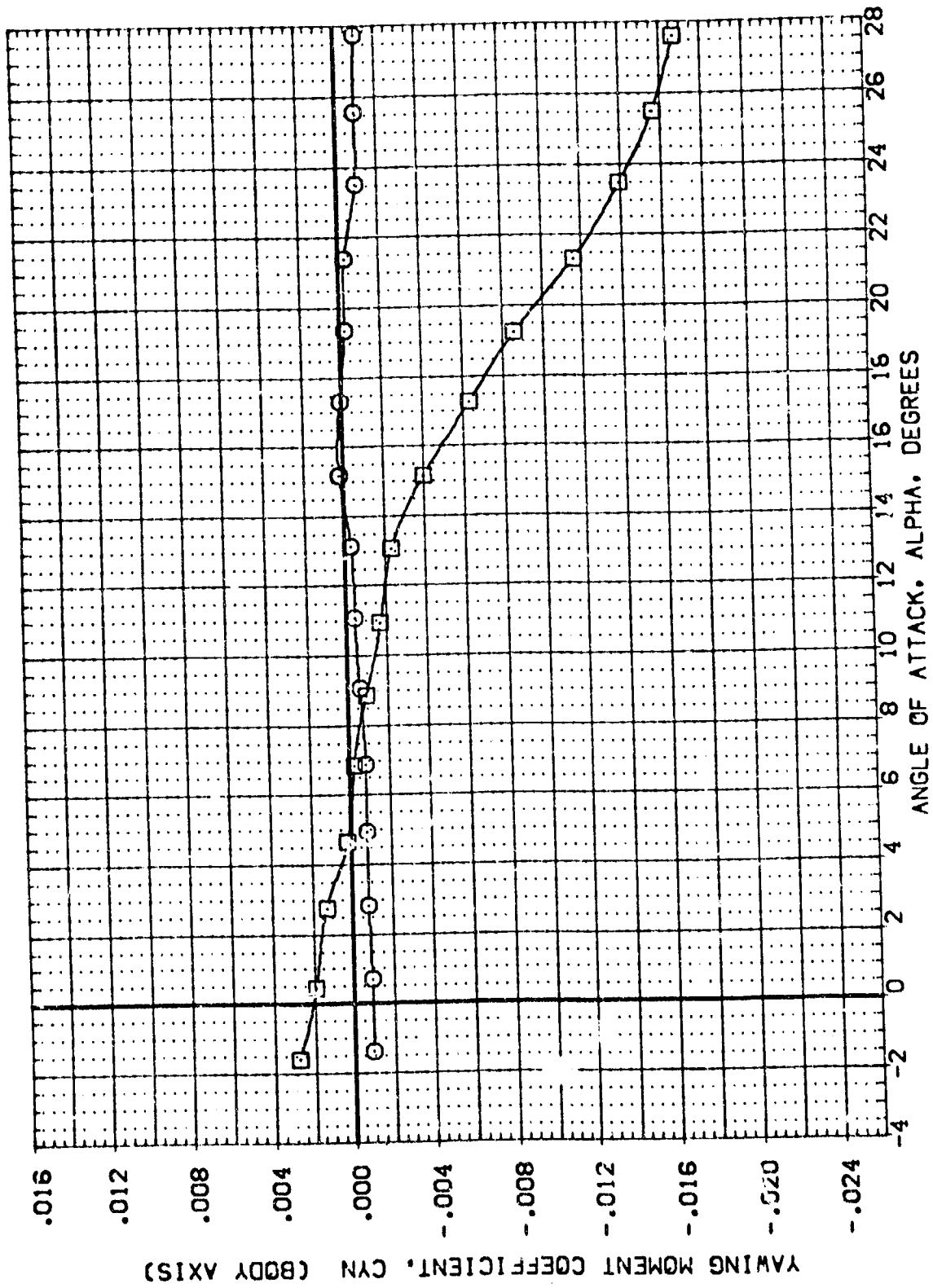


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(C)MACH = 2.00

DATA SET SYMBOL: [A8T004] [A3'02:]

CONFIGURATION DESCRIPTION: AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS
AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS

BETA: .000
SPOBRN: .000
RUDER: .000

800FLP: -14.200
SPOBRN: 54.500
RUDER: 54.500

REFERENCE INFORMATION: SREF: 2630.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XREF: 1076.4800 IN.
YREF: .0000 IN.
ZREF: 400.0000 IN.
SCALE: .0150

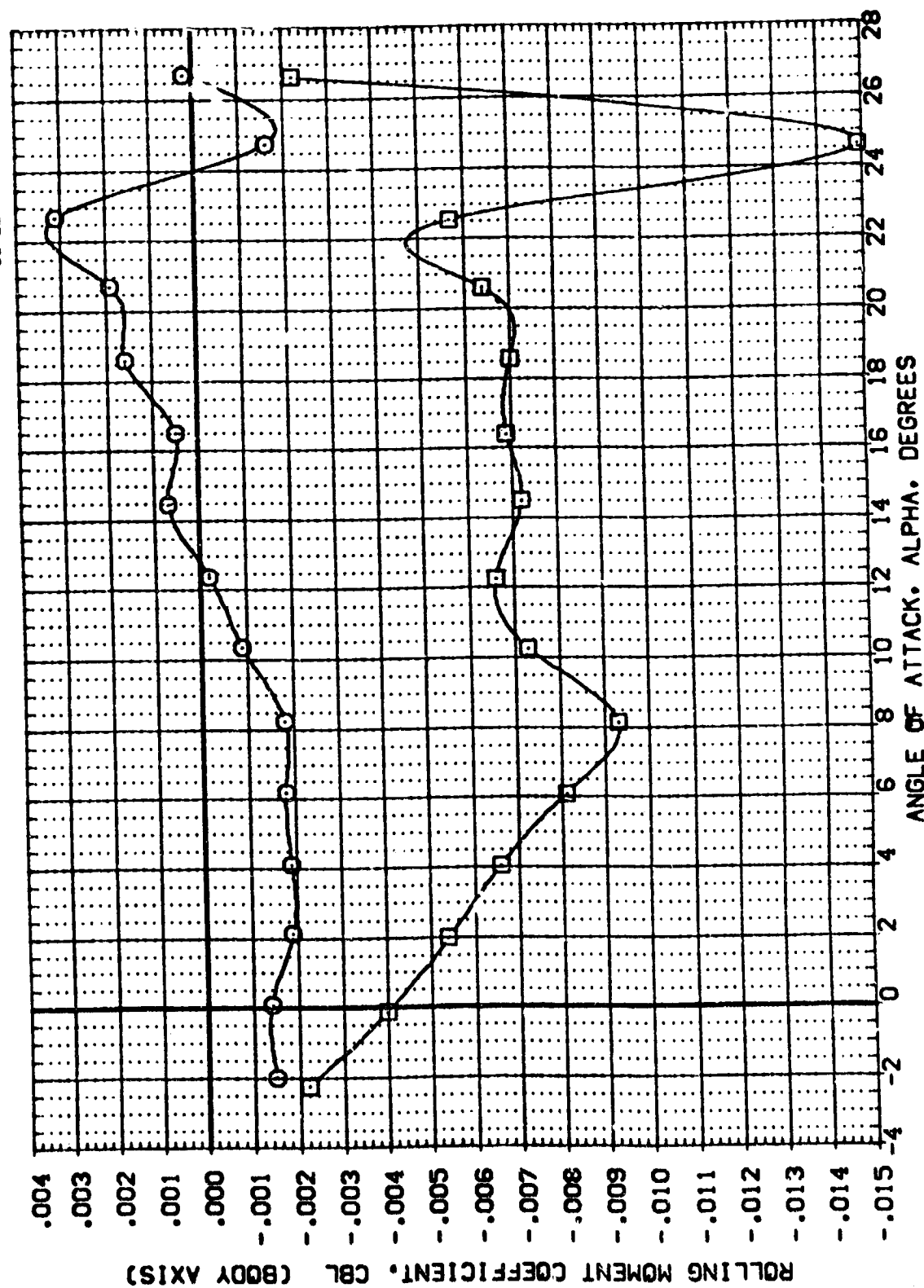


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(A)MACH = .60

DATA SET SYMBOL: (ABT004) (ABT021)

CONFIGURATION DESCRIPTION: AYES 66-706 CM13 B10 CS 07 K3 F4 Y87E18 V595
AYES 66-706 CM13 B10 CS 07 K3 F4 Y87E18 V595

BETA: .000
5.000

800FLP: -14.200
-14.200

SP00BK: 54.500
54.500

RUDER: .000
.000

REFERENCE INFORMATION: SREF 2630.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.8600 IN.
XMRP 1076.4800 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

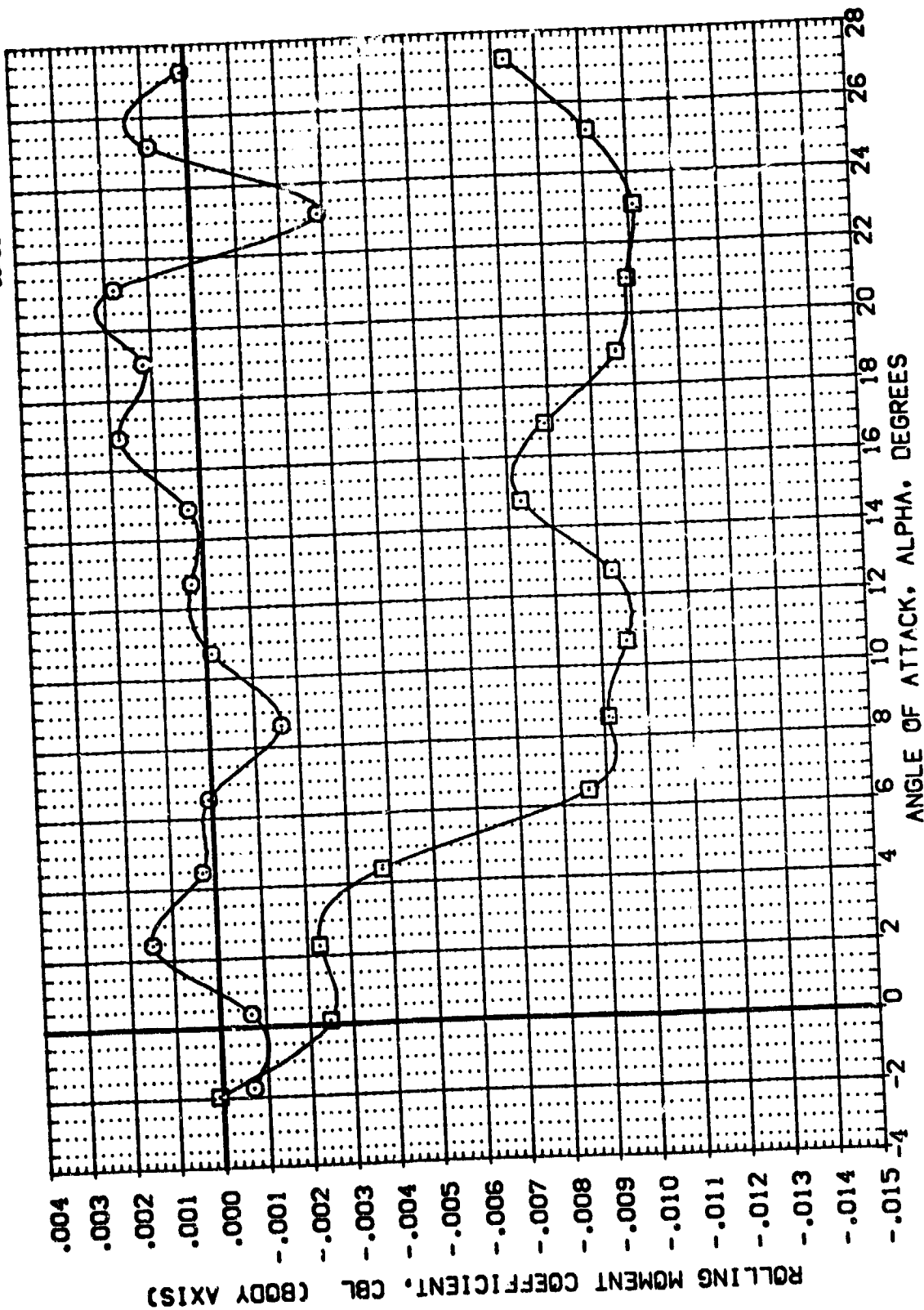


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(B)MACH = .91

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (ABT004) AVES 65-706 0A13 B10 C5 07 M3 F4 V87E18 V5R5
 (ABT021) AVES 65-706 0A13 B10 C5 07 M3 F4 V87E18 V5R5

BETA BOOFLP SPDRK RUDDER
 .000 -14.200 54.900 .000
 5.000 -14.200 54.900 .000

REFERENCE INFORMATION
 SREF 2850.0000 92.5 FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 YMRP 1076.4800 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

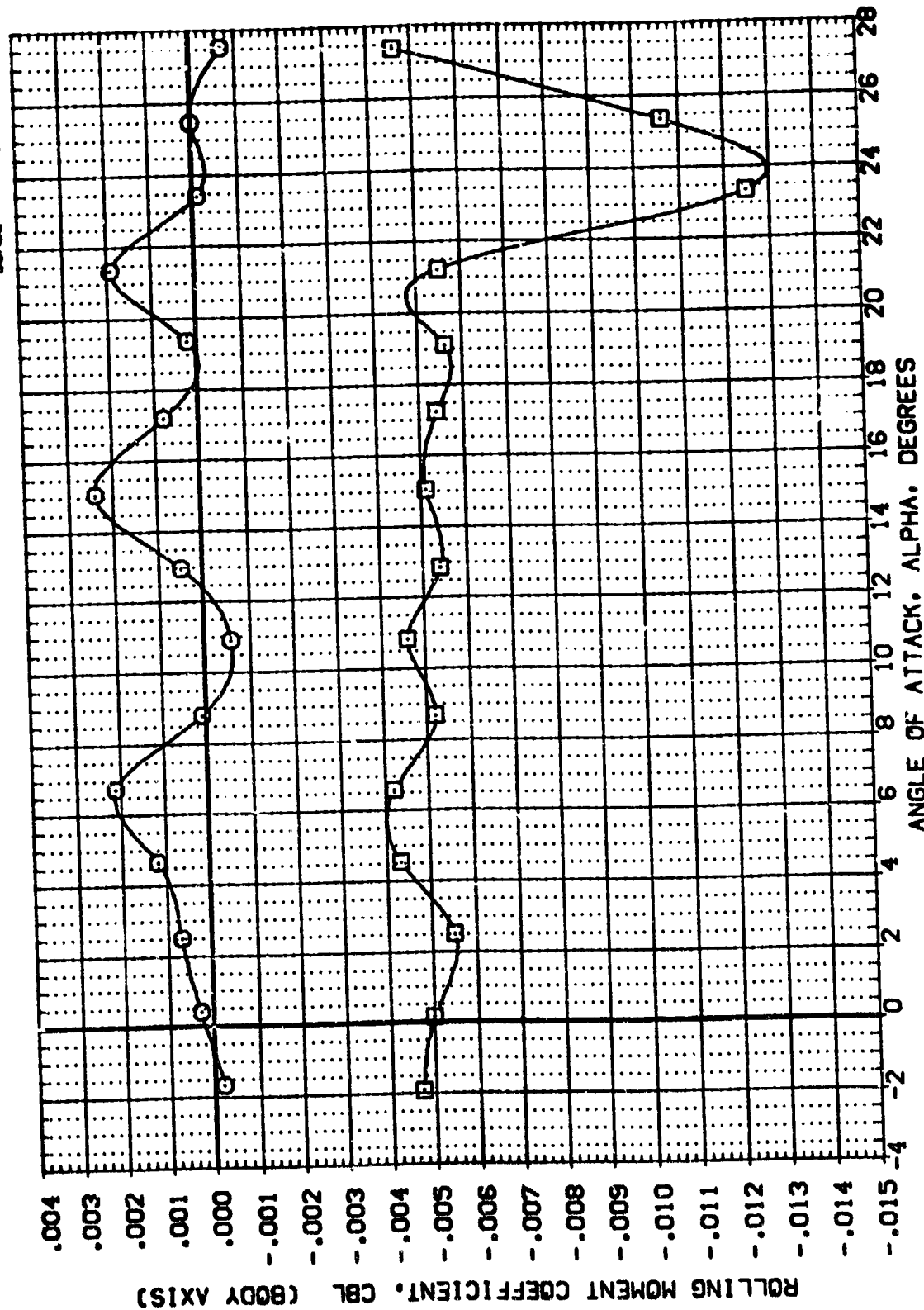


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	600FLP	SPURK	RUDDER	REFERENCE INFORMATION
(ABT001)	AMES 66-706 0413 B10 C5 D7 M3 F4 167E18 V5R5	.000	-14.200	54.900	.000	2630.0000 90.FT.
(ABT021)	AMES 66-706 0413 B10 C5 D7 M3 F4 167E18 V5R5	5.000	-14.200	54.900	.000	174.8000 IN.
						938.8000 IN.
						1076.4000 IN.
						400.0000 IN.
						400.0000 IN.
						SCALE
						.0150

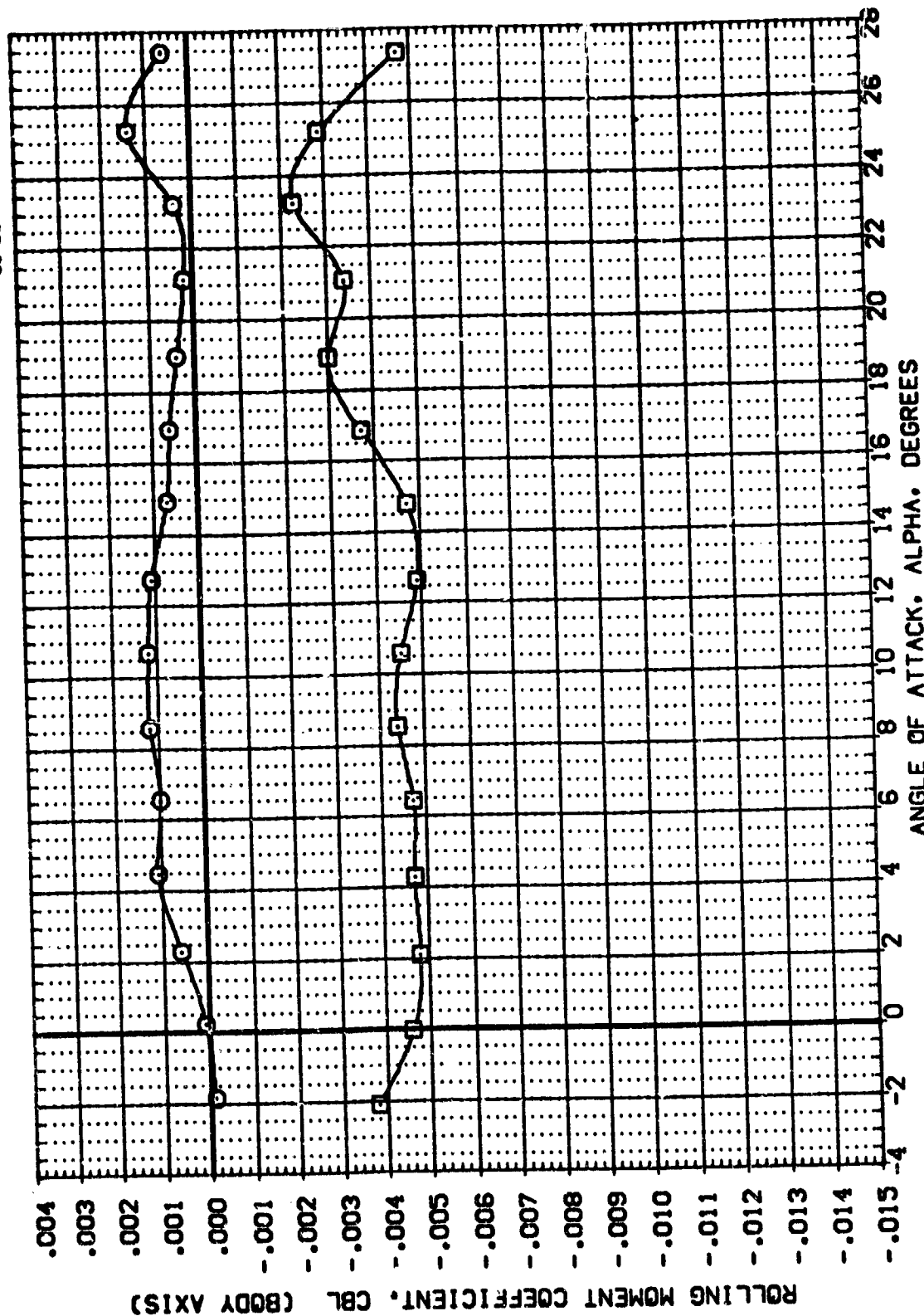
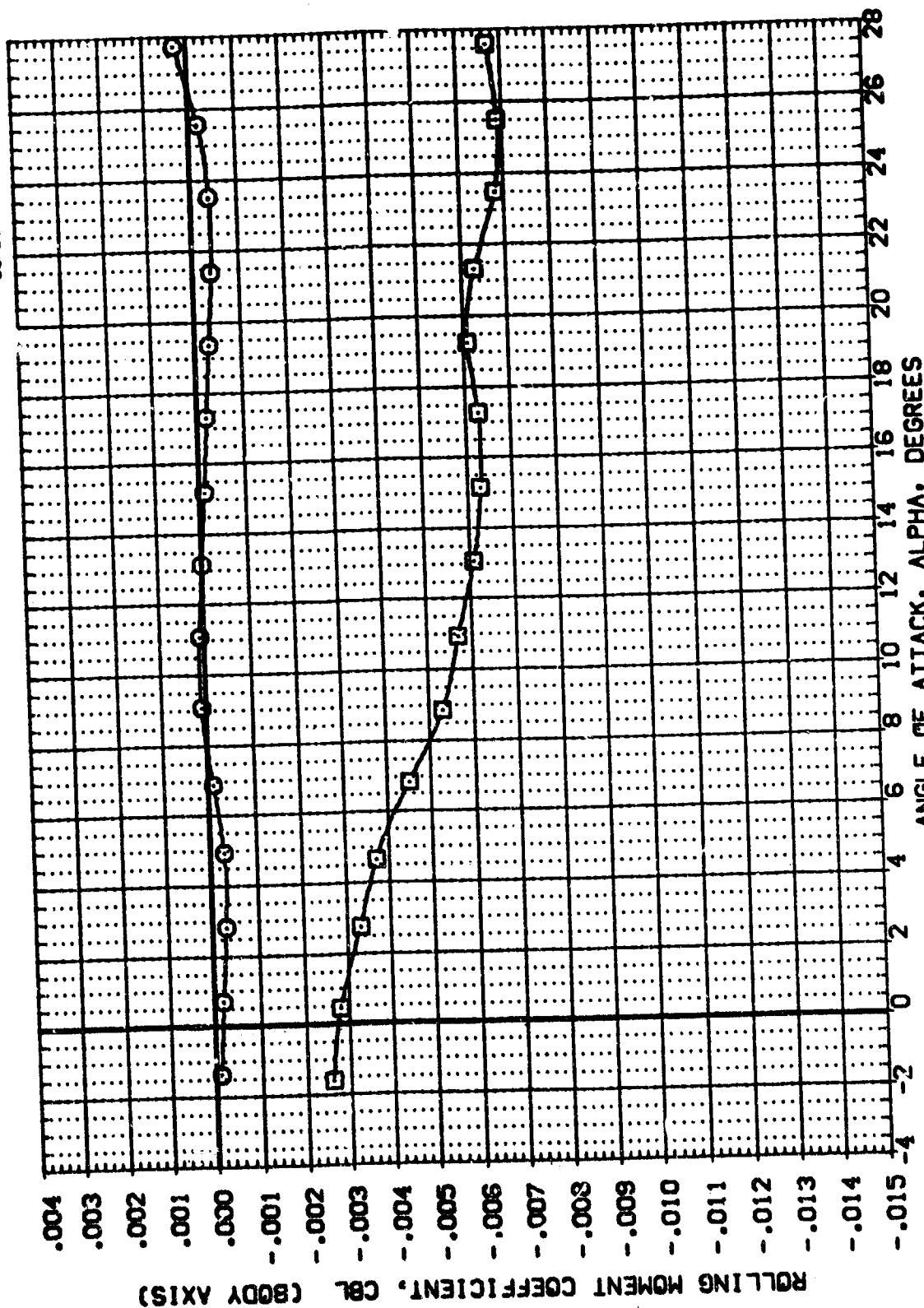


FIG. 15 LATERAL-DIRECTIONAL YAW POLAR

(C)MACH = 1.50

BETA	800LP	SPOBPK	RUDER	REFERENCE INFORMATION	90 FT.
.000	-14.200	54.500	.000	SPEF	2680 .0000
.000	-14.200	54.500	.000	LEAF	474 .0000
.000	-14.200	54.500	.000	SPEF	2036 .0000
.000	-14.200	54.500	.000	XRAY	107% .0000
.000	-14.200	54.500	.000	VIBR	4000 .0000
.000	-14.200	54.500	.000	ZTRP	4000 .0000
.000	-14.200	54.500	.000	ZTRP	4000 .0000
.000	-14.200	54.500	.000	SCALE	400 .0150
.000	-14.200	54.500	.000	SCALE	400 .0150



EIG 15 LATERAL-DIRECTIONAL YAW POLAR

CEJMACH = 2.00



AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (ABTC21)

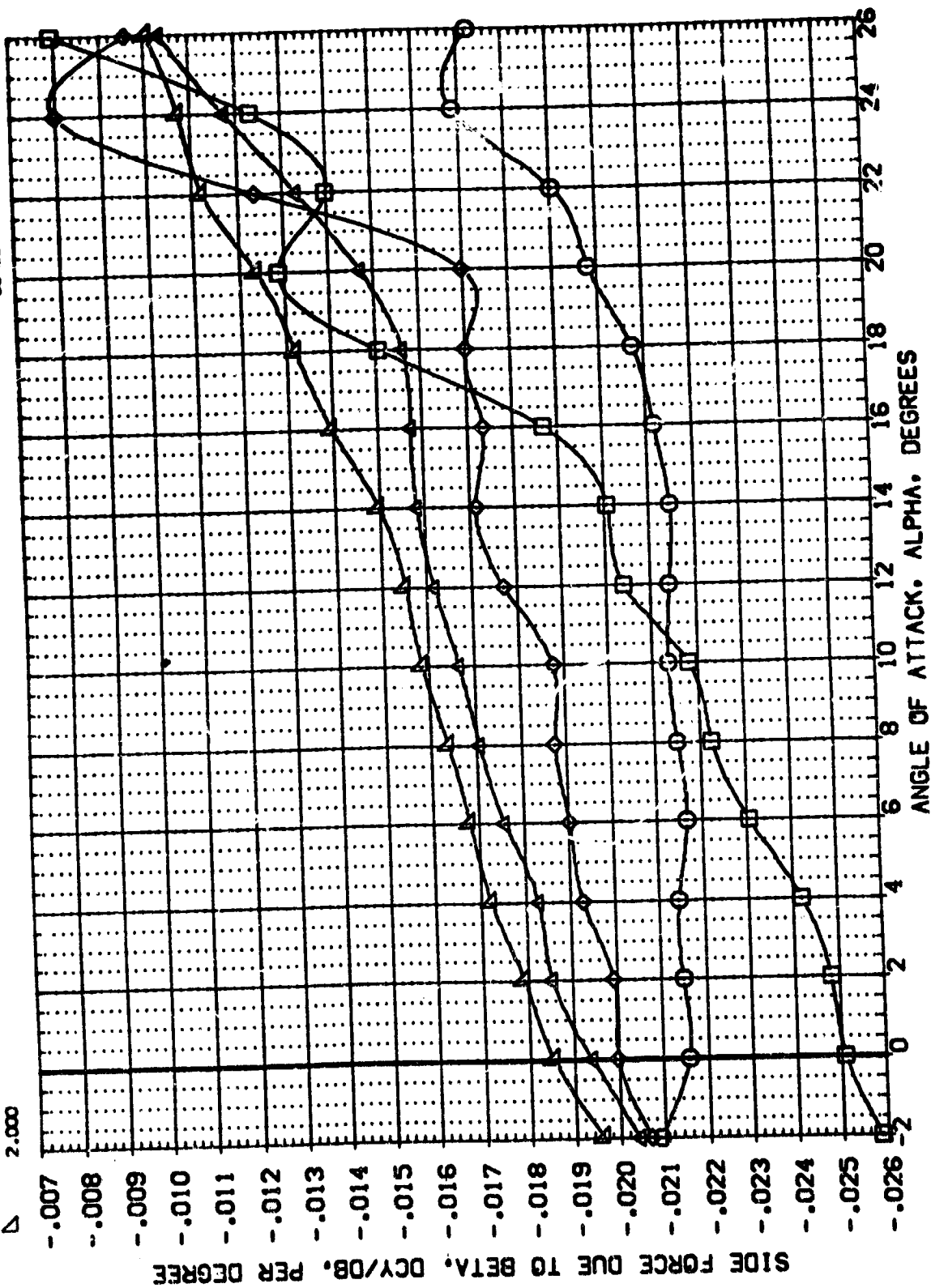
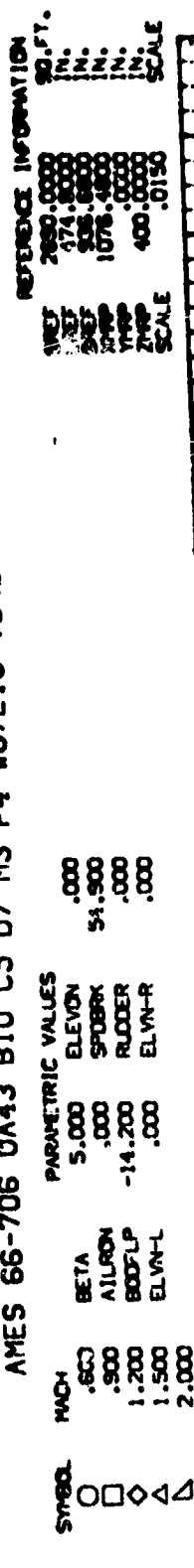


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES

(ABTC21)

AMES 66-706 0A43 B10 C5 07 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
 SREF 2680.0000
 LREF 474.8000
 BREF 378.8800
 XREF 1076.1800
 YREF 100.0000
 ZREF 100.0000
 SCALE .0150

PARAMETRIC VALUES
 BETA 5.000
 AILRON .000
 RODFLP -14.200
 ELVN-L .000
 ELVN-R .000
 ELEVON .000
 SPOBRK 54.500
 RUDDER .000

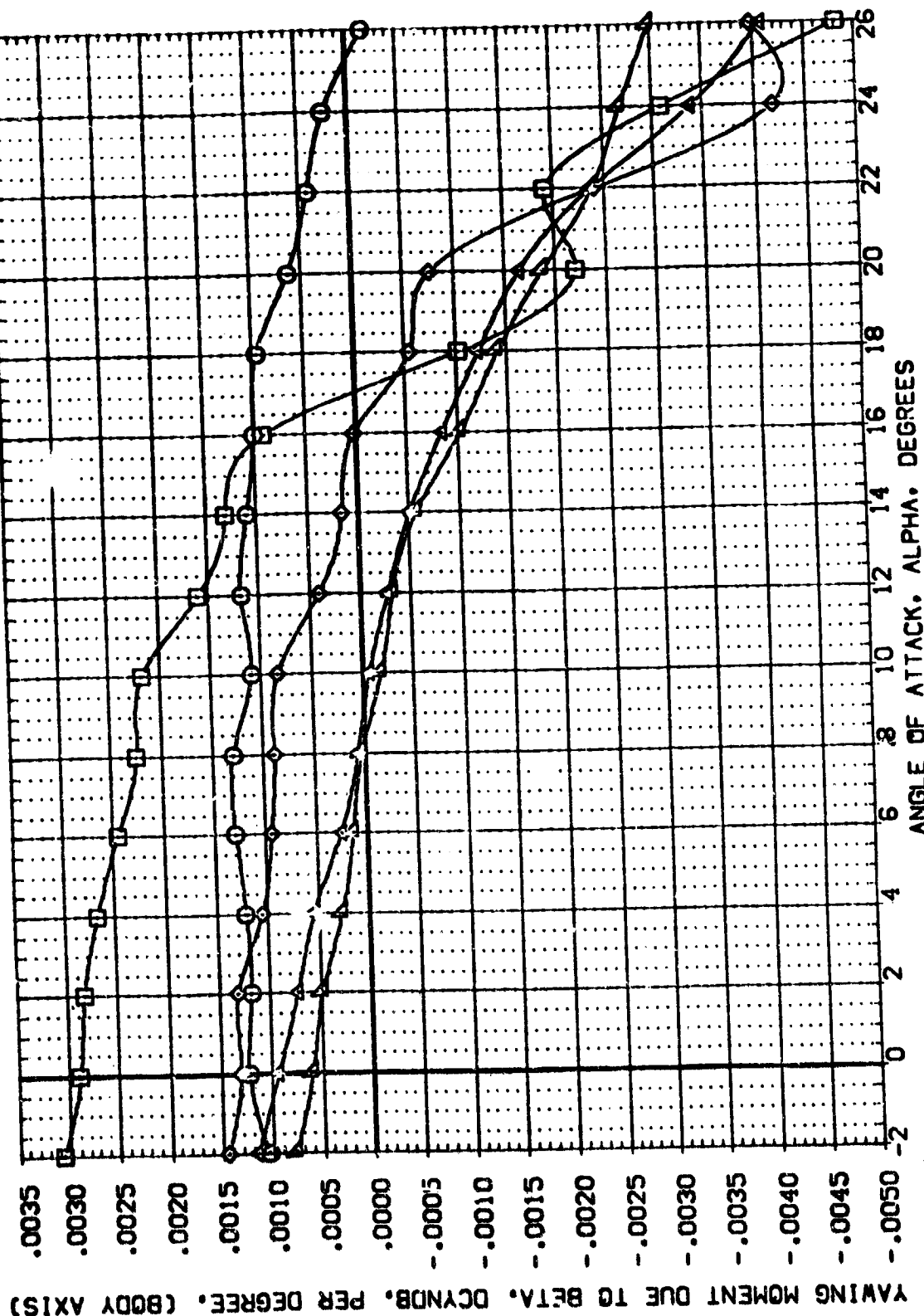


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES

AMES 66-706 0A43 B:0 C5 D7 M3 F4 W87E18 V5R5 (ABTC21)

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 926.6800 IN.
 XMRP 1076.1800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 BETA 5.000 ELEVON .000
 AILRON .000 SPOBRK 54.500
 BOOFLP -14.200 RUDDER .000
 ELVN-L .000 ELVN-R .000

SYMBOL MACH
 1.000
 1.200
 1.500
 2.000

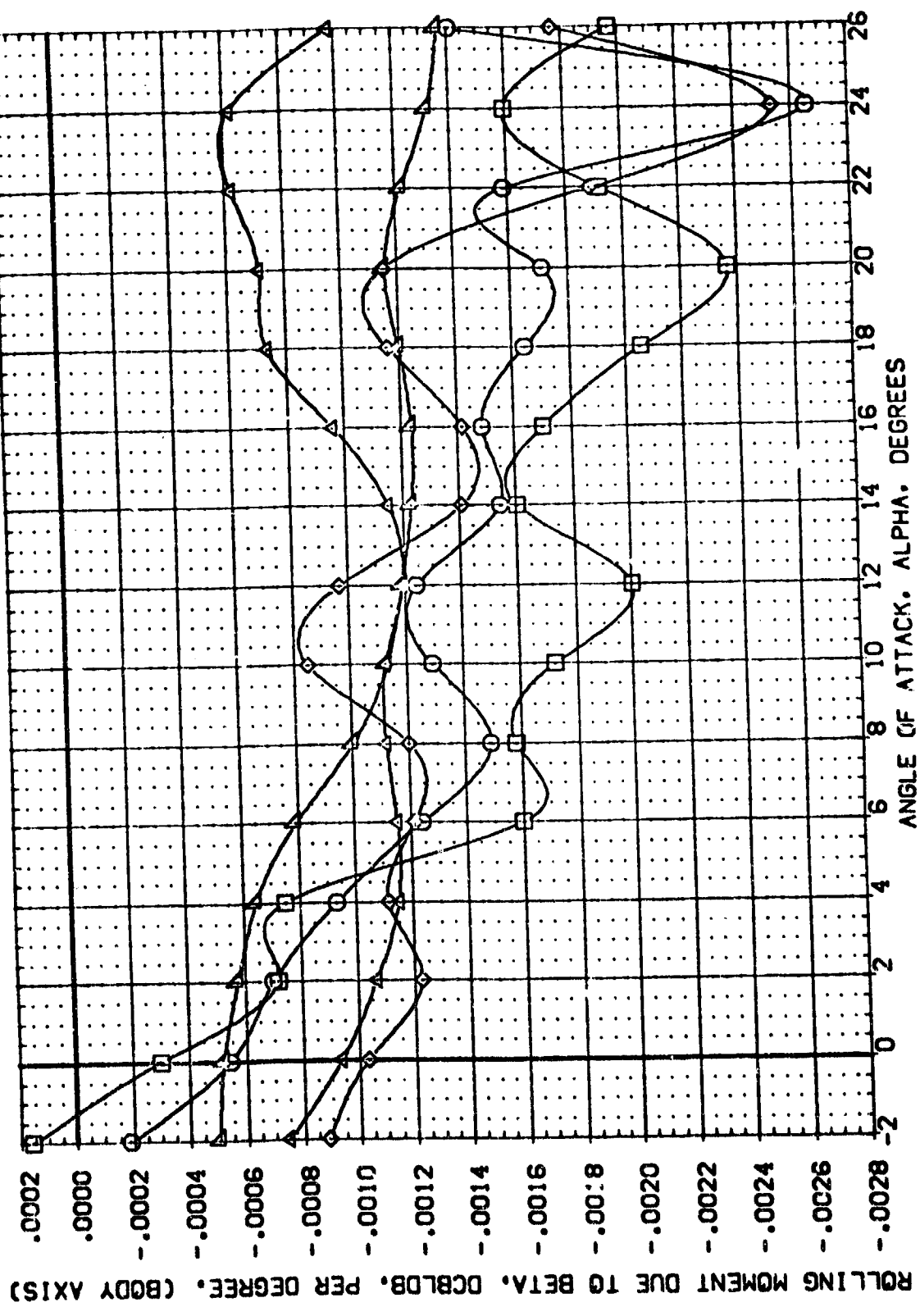


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES

(ABT021)

AMES 66-706 CA43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL ALPHA
 ○ .000
 □ 10.000
 ◇ 20.000

BETA
 AIRLON
 BOOFLP
 ELVN-L

PARMETRIC VALUES
 5.000 ELEVON
 .000 SPOBRK
 -14.200 RUDDER
 .000 ELVN-R

.000
 54.900
 .000
 .000

REFERENCE INFORMATION
 SREF 2650.0000
 LREF 474.8000
 BREF 936.6800
 X-APP 1076.4800
 Y-APP 1076.4800
 Z-APP 400.0000
 SCALE .0150
 50.FT.
 IN.
 IN.
 IN.
 IN.
 IN.
 IN.
 IN.

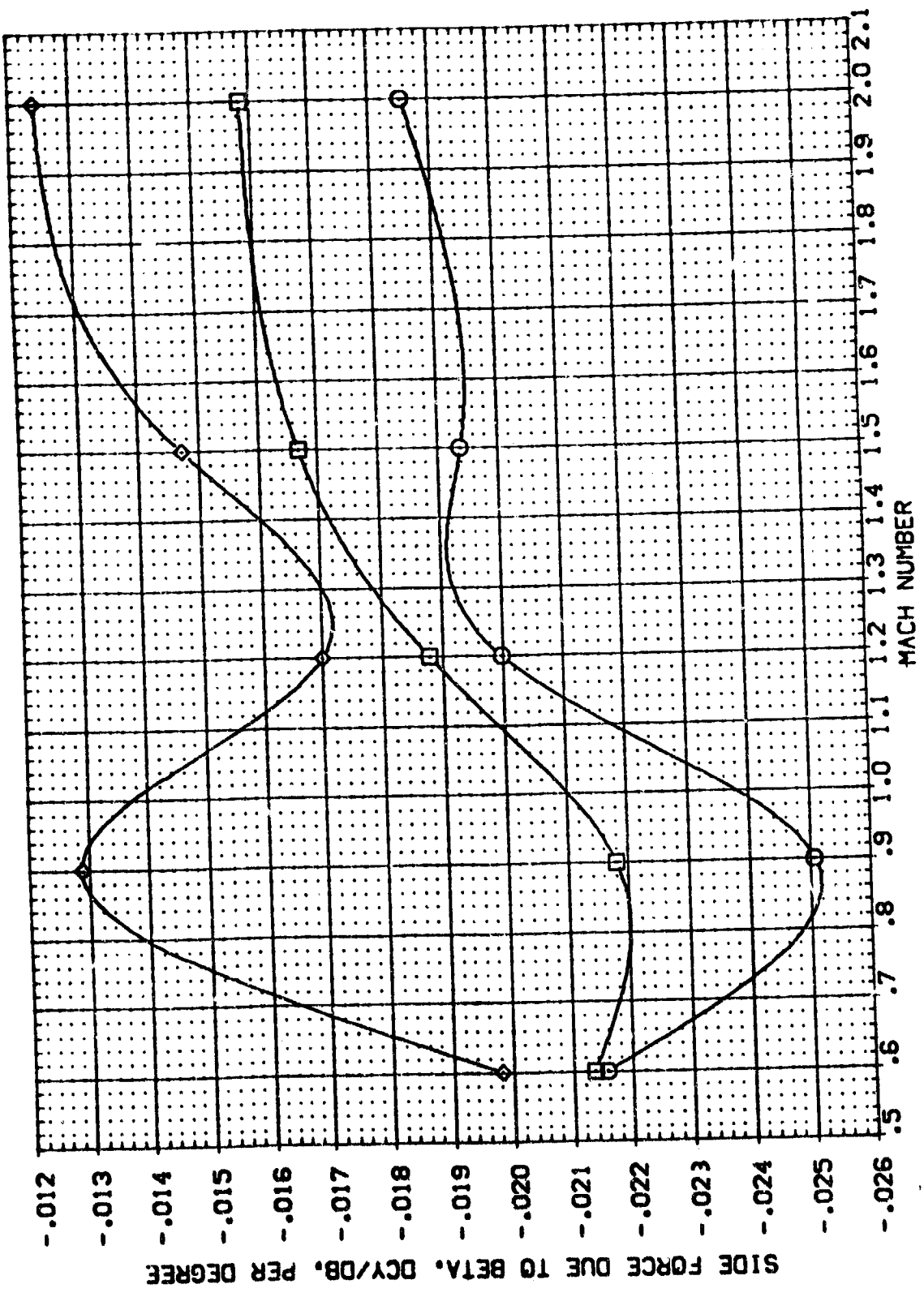


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES



(ABTD21)

AMES 66-706 OA43 B10 C5 D7 M3 F4 W87E18 V5R5

REFERENCE INFORMATION
SREF 2650.0000 SQ.FT.
LREF 474.8000 IN.
SREF 936.6800 IN.
XMRP 1076.4800 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

PARAMETRIC VALUES
ALPHA .000 BETA 5.000 ELEVON .000
10.000 0.000 SPDRK 54.900
20.000 0.000 RUDDER .000
ELVN-L -14.200 ELVN-R .000

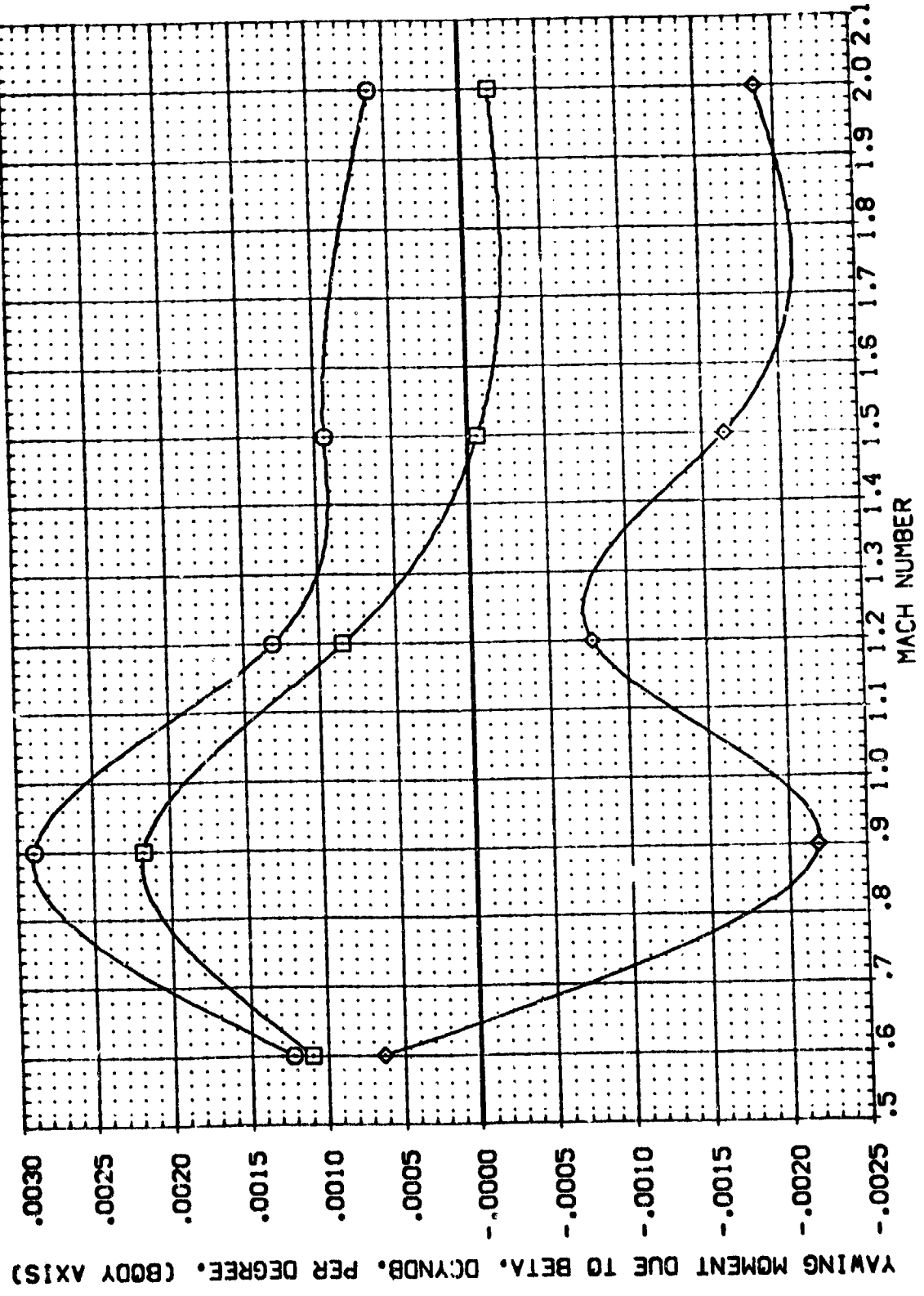


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES

(ABTD21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 925.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 ALPHA .000
 BETA 5.000 ELEVON .000
 AILERON .000 SPDBRK 54.900
 BOOFLP -14.200 RUDDER .000
 ELVN-L .000 ELVN-R .000

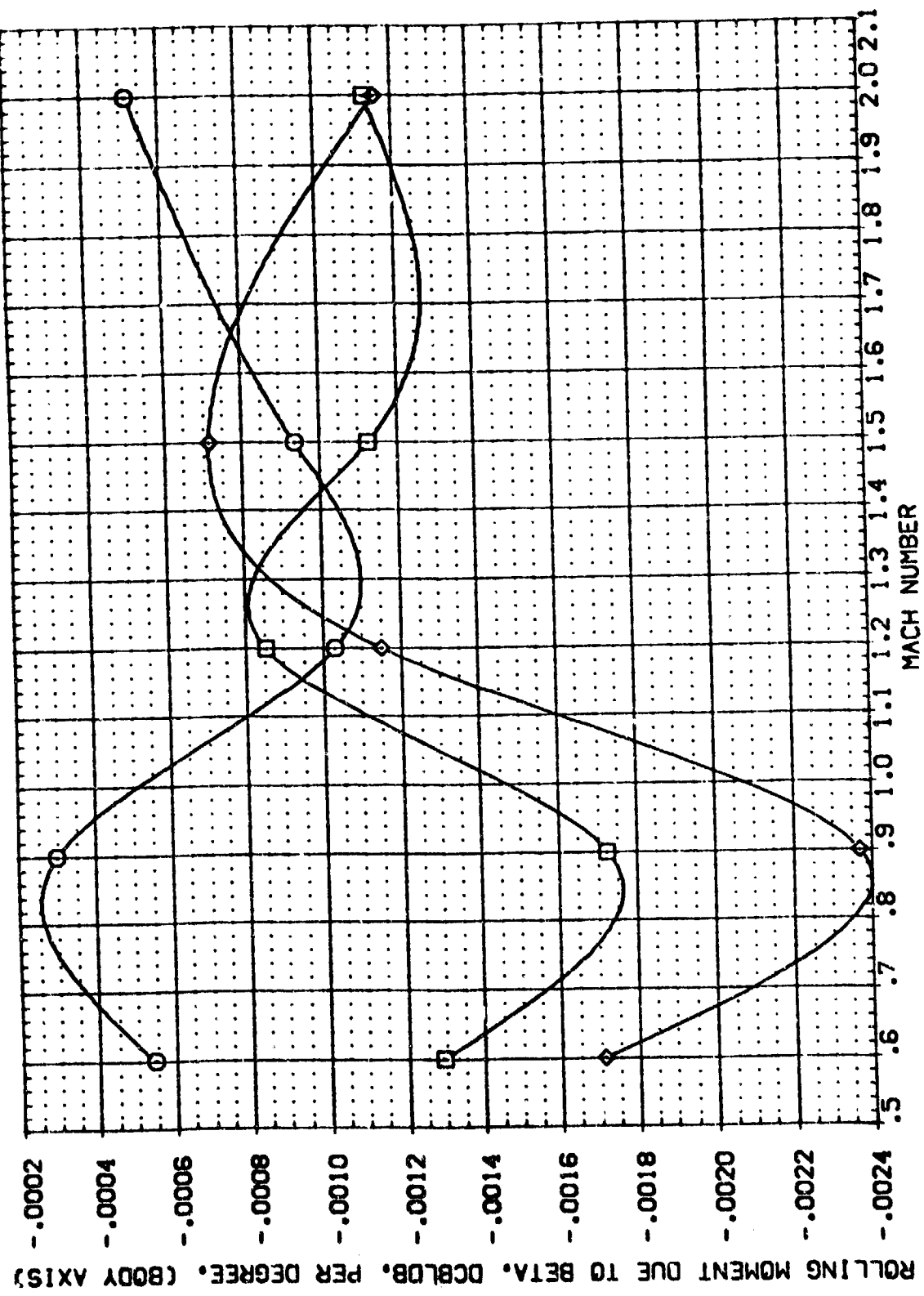


FIG. 16 LATERAL-DIRECTIONAL DERIVATIVES

DATA SET SYMBOL: (AST020) (AST019)

CONFIGURATION DESCRIPTION:
 AYES 66-706 GM43 B10 CS D7 PG F4 V87E18 V5K5
 AYES 66-706 GM43 B10 CS D7 PG F4 V87E18 V5K5

ALPHA: .000
 10.000

BOOTLP: -14.200
 -14.200

SPO39K: 54.500
 54.500

RUDER: .000
 .000

REFERENCE INFORMATION:
 SREF: 2650.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 536.6800 IN.
 YARP: 1076.4600 IN.
 ZARP: .0000 IN.
 SCALE: 400.0000 IN.
 .0150

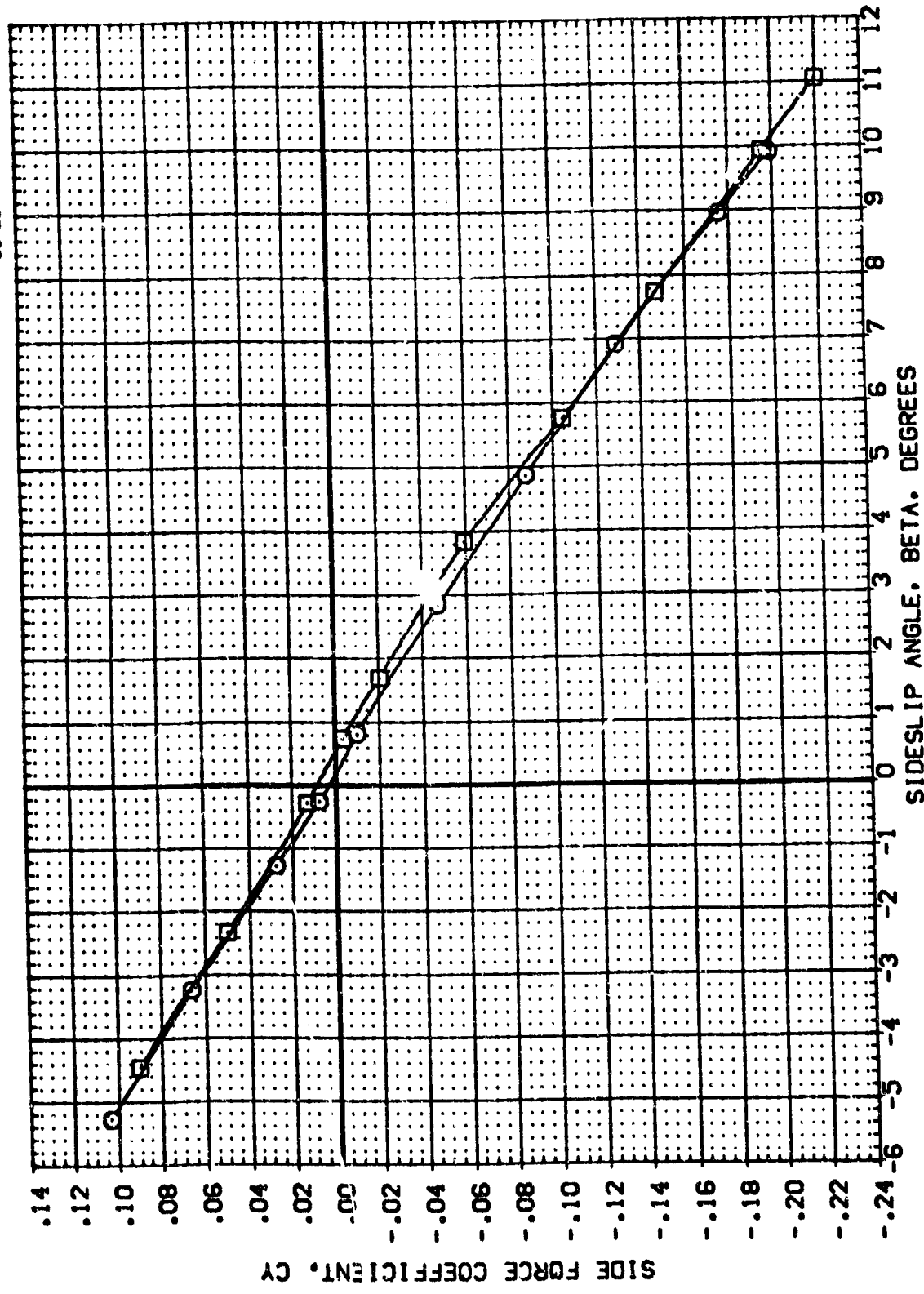


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ALPHA		BOOFLP		SPCGRK		RUDDER		REFERENCE INFORMATION						
(A8T000)		AVES 66-706 D413 B10 CS D7 M3 FA V87E18 V5R5										.000		-14.200		51.900		.000		2.00.0000 50.00.00						
(A8T019)		AVES 66-706 D413 B10 CS D7 M3 FA V87E18 V5R5										10.000		-14.200		51.900		.000		474.8000 50.00.00						
																				936.6800 50.00.00						
																						1078.1800 50.00.00				
																						400.0000 50.00.00				
																						SCALE .0150				

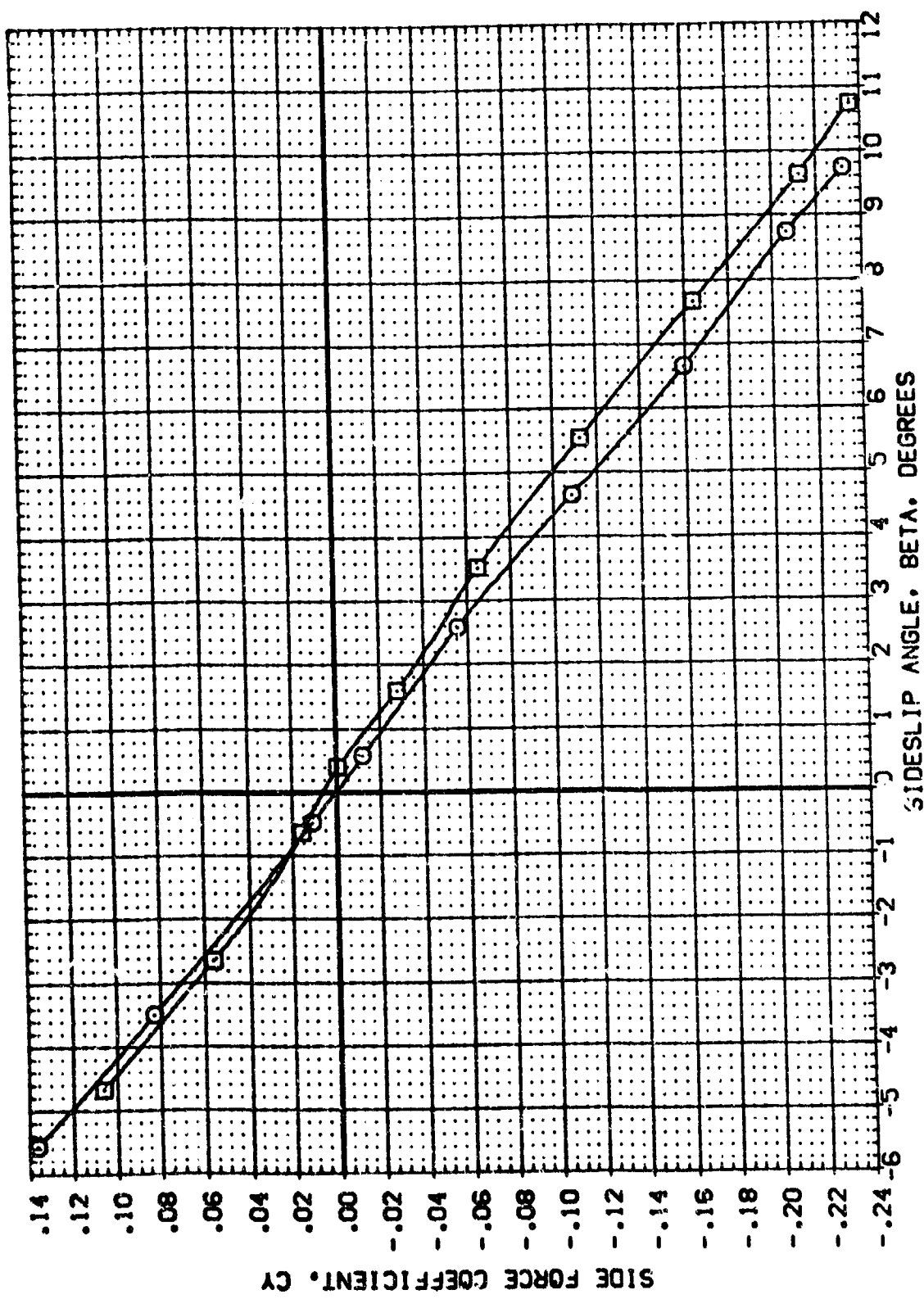


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(B)MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(A8T020)	□	AMES 65-706 0A13 810 CS D7 M3 F4	W87E18 VSRS	SREF	2650.0000 SQ.FT.
(A8T019)	□	AMES 65-706 0A13 810 CS D7 M3 F4	W87E18 VSRS	LREF	474.8000 IN.
				BREF	935.8800 IN.
				WREF	1076.4800 IN.
				YREF	400.0000 IN.
				ZREF	400.0000 IN.
				SCALE	.0150

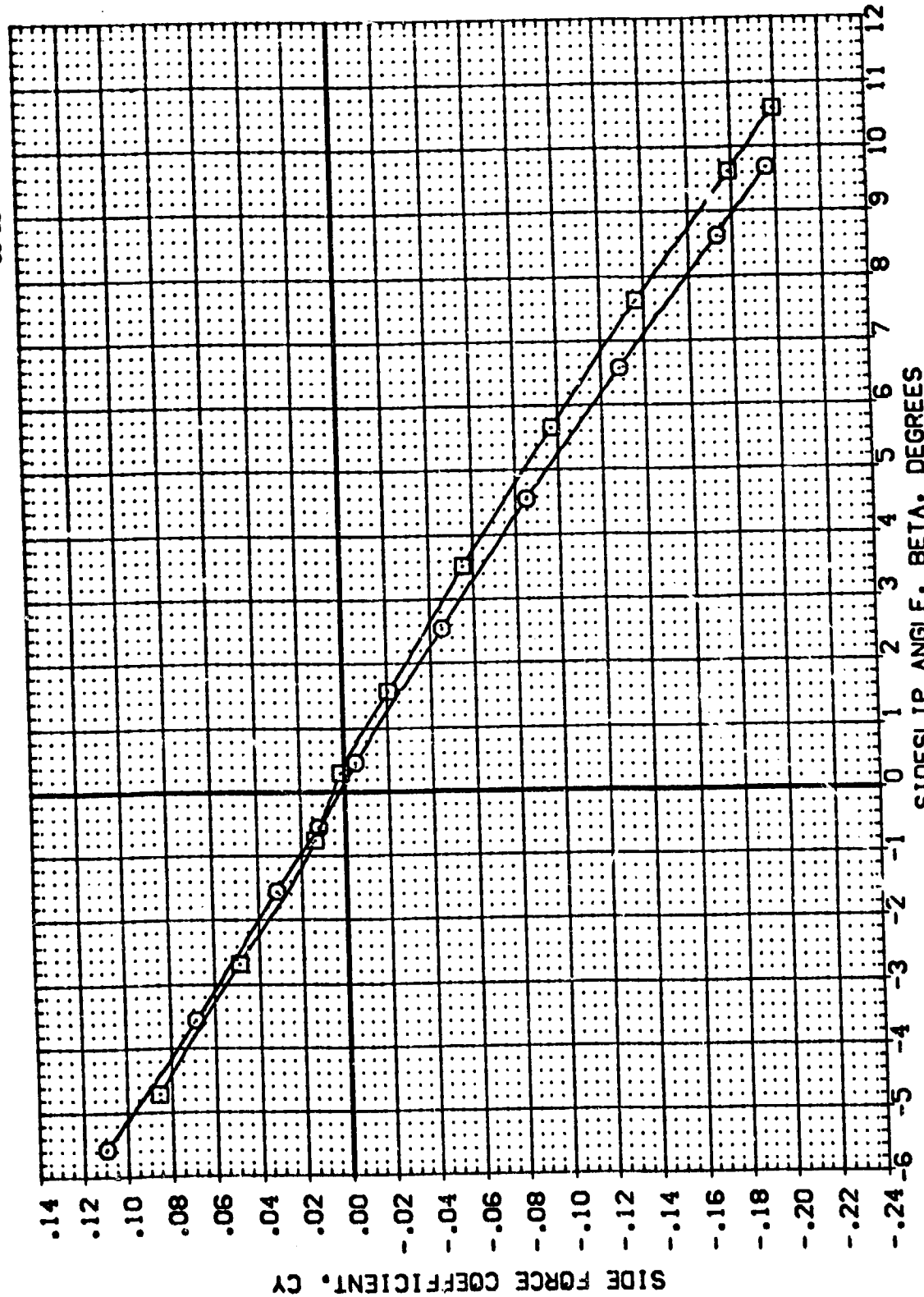


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(C)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ALPHA		BODYLP		STOBRK		RUDDER		REFERENCE INFORMATION						
(A81000)	□	AVES 66-708	0443	810	C5	D7	K3	F4	V87E18	V5R5	0.00	-14.200	54.900	0.00	2530.0000	474.8000	936.6800	1076.4800	400.0000	0.0150	50.0000	474.8000	936.6800	1076.4800	400.0000	0.0150
(A81019)	□	AVES 66-708	0443	810	C5	D7	K3	F4	V87E18	V5R5	10.000	-14.200	54.900	0.00	2530.0000	474.8000	936.6800	1076.4800	400.0000	0.0150	50.0000	474.8000	936.6800	1076.4800	400.0000	0.0150

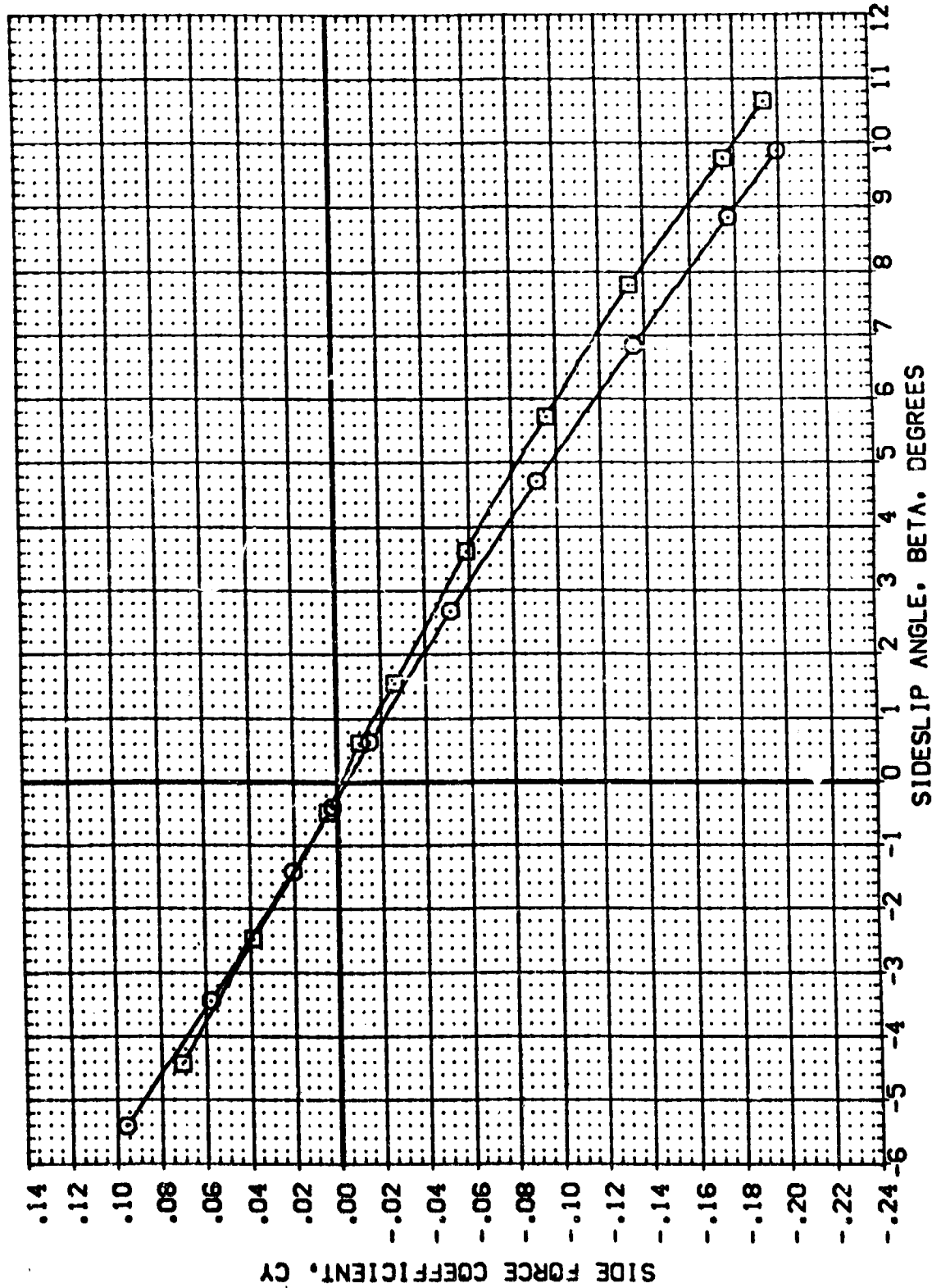


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(O)MACH = 1.50

DATA SET SYMBOL: (A9702C) (A97019)

CONFIGURATION DESCRIPTION:
 ASES 66-706 0A13 B10 CS D7 H3 F4 V67E18 V5R5
 ASES 66-706 0A13 B10 CS D7 H3 F4 V67E18 V5R5

ALPHA: .000 10.000
 BODY LIFT: -14.200 -14.200
 SPIN: .000 .000
 FLUTTER: .000 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8000 IN.
 BREF: 936.5800 IN.
 XPRP: 1076.4800 IN.
 YPRP: .0000 IN.
 ZPRP: .0000 IN.
 SCALE: 400.0000 .0150

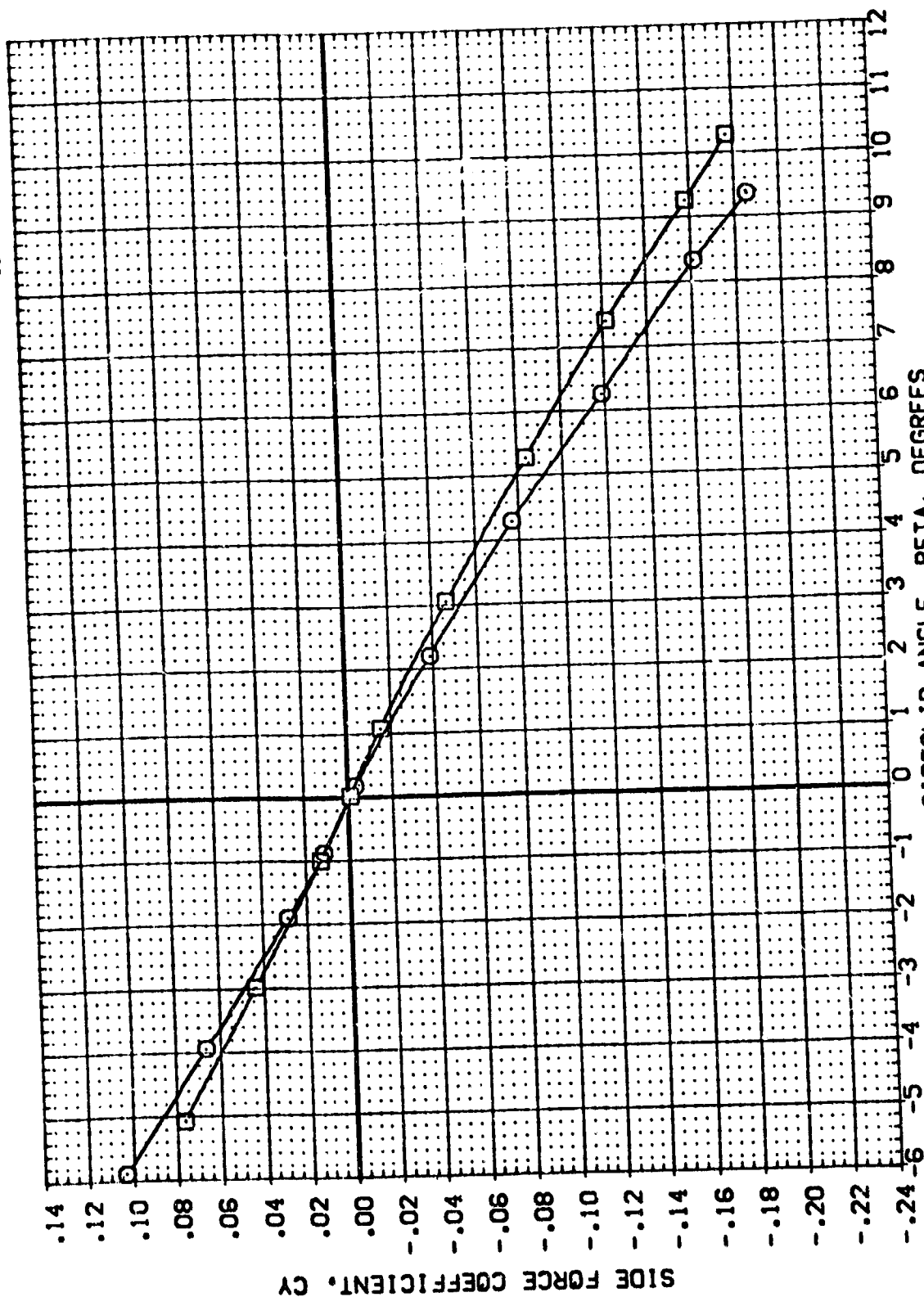


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ALPHA		BOOFLP		SPOBRK		RUDDER		REFERENCE INFORMATION				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS										.000		-14.200		54.900		.000		SREF 2690.0000 50.FT.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS										10.000		-14.200		54.900		.000		LREF 474.8000 IN.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS																		BREF 936.6800 IN.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS																		XMRP 1076.4800 IN.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS																		YMRP .0000 IN.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS																		ZMRP 400.0000 IN.				
{ABT0:9}		APES 66-706 DA13 B10 CS D7 H3 F4 V87E18 VSRS																		SCALE .0150				

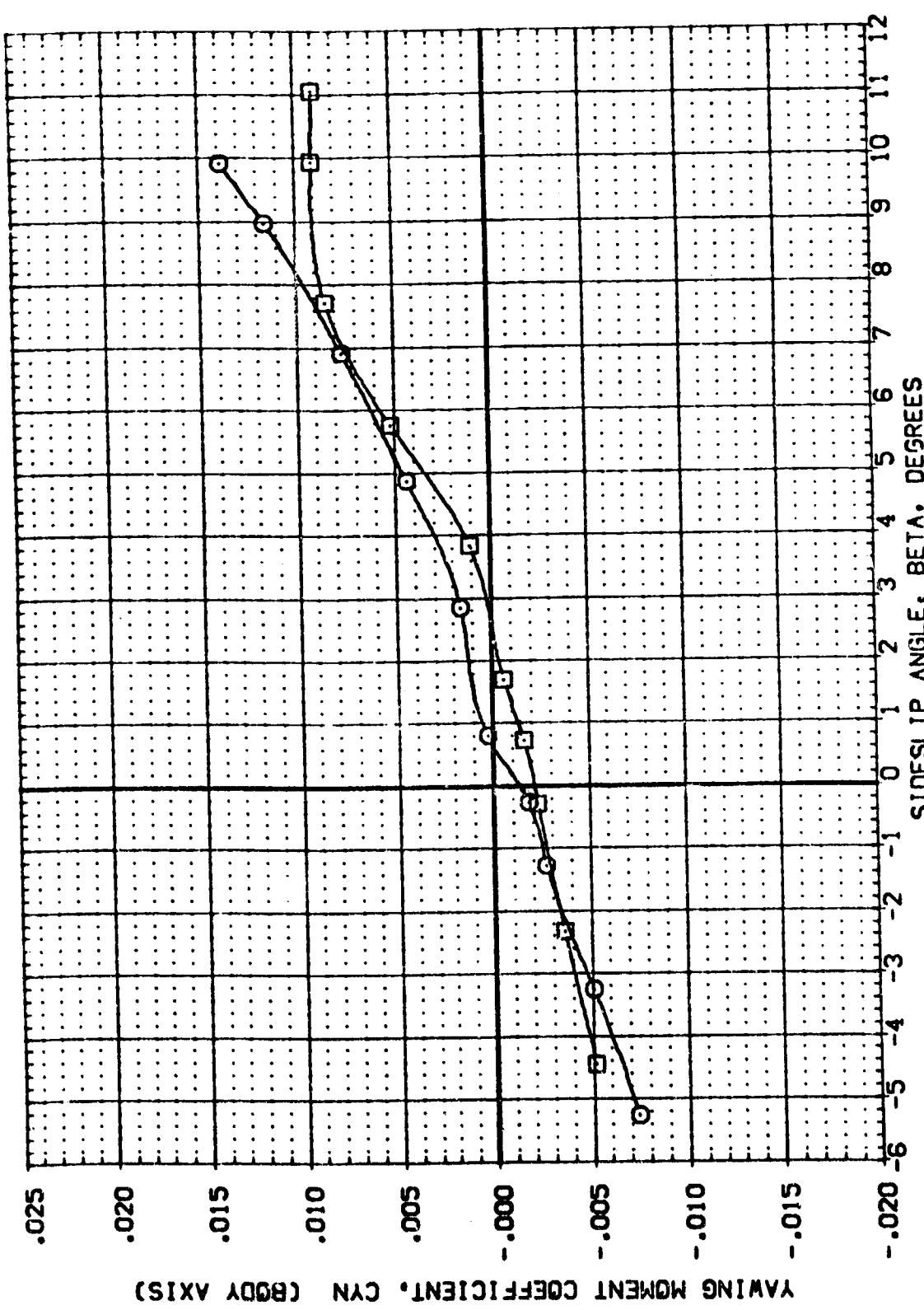


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(A)MACH = .60

DATA SET SYMBOL: [AS102C] [AS1019]
 CONFIGURATION DESCRIPTION: AMES 66-706 0A13 B10 CS D7 M3 F4 V67E18 VS95
 AMES 66-706 0A13 B10 CS D7 M3 F4 V67E18 VS95

ALPHA: .000
 BODY LIP: -14.200
 SPDBRK: 54.500
 RUDDER: .000

REFERENCE INFORMATION: SREF: 2630.0000 SO.FT.:
 LREF: 474.8000 IN.:
 BREF: 936.6800 IN.:
 XMRP: 1076.4800 IN.:
 YMRP: 400.0000 IN.:
 ZMRP: 100.0000 IN.:
 SCALE: .0150

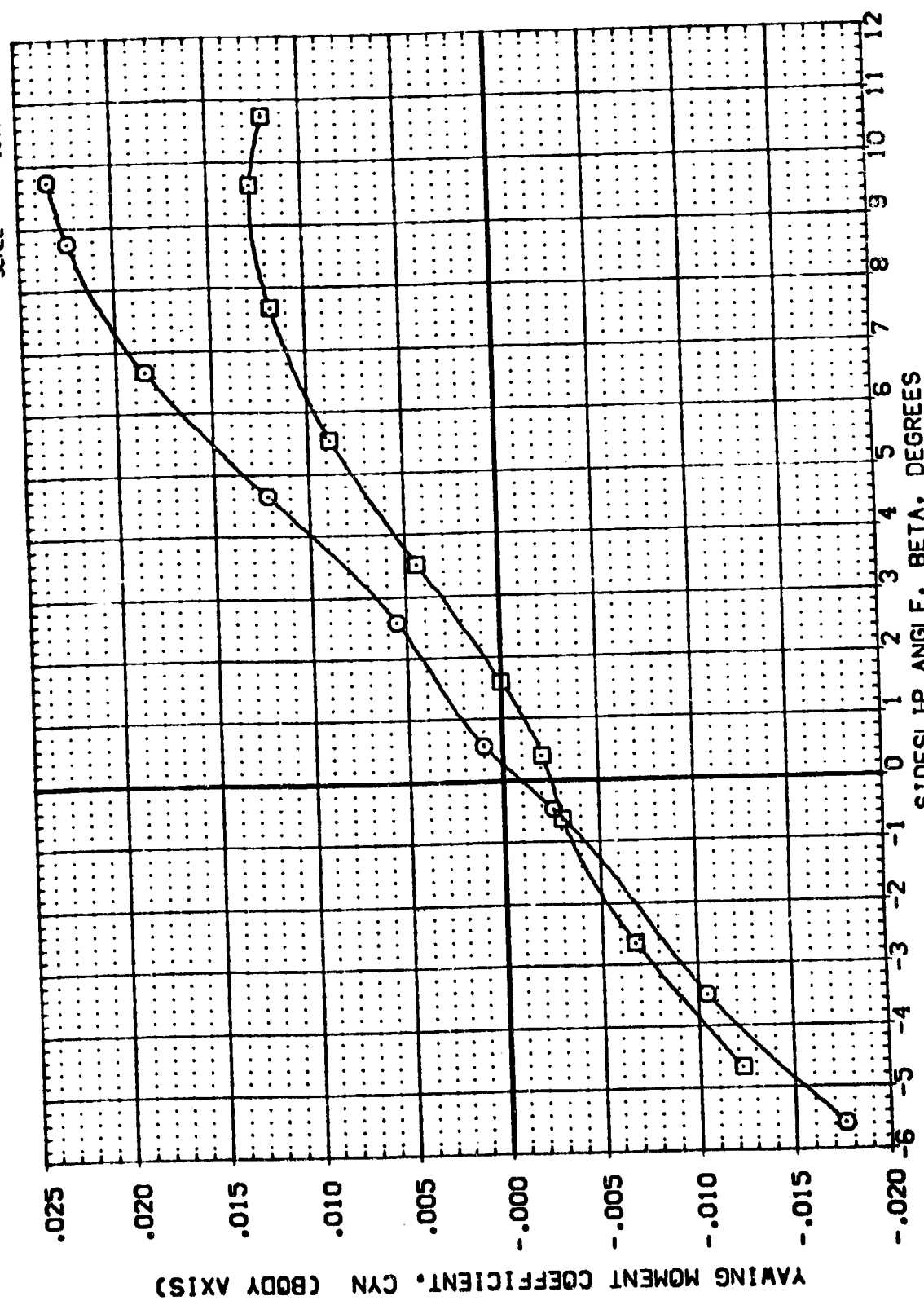


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(B)MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION	
[A87020]	[A87019]	AVES 25-706	Q43	B10	CS	D7	M3	F4	V87E18	V5K5	SREF	2630.0000	SD, FT.
		AVES 65-706	Q43	B10	CS	D7	M3	F4	V87E18	V5K5	LREF	474.8000	IN.
											BREF	938.8000	IN.
											XPRP	1076.4800	IN.
											YPRP	400.0000	IN.
											ZPRP	400.0000	IN.
											SCALE	.0150	SCALE

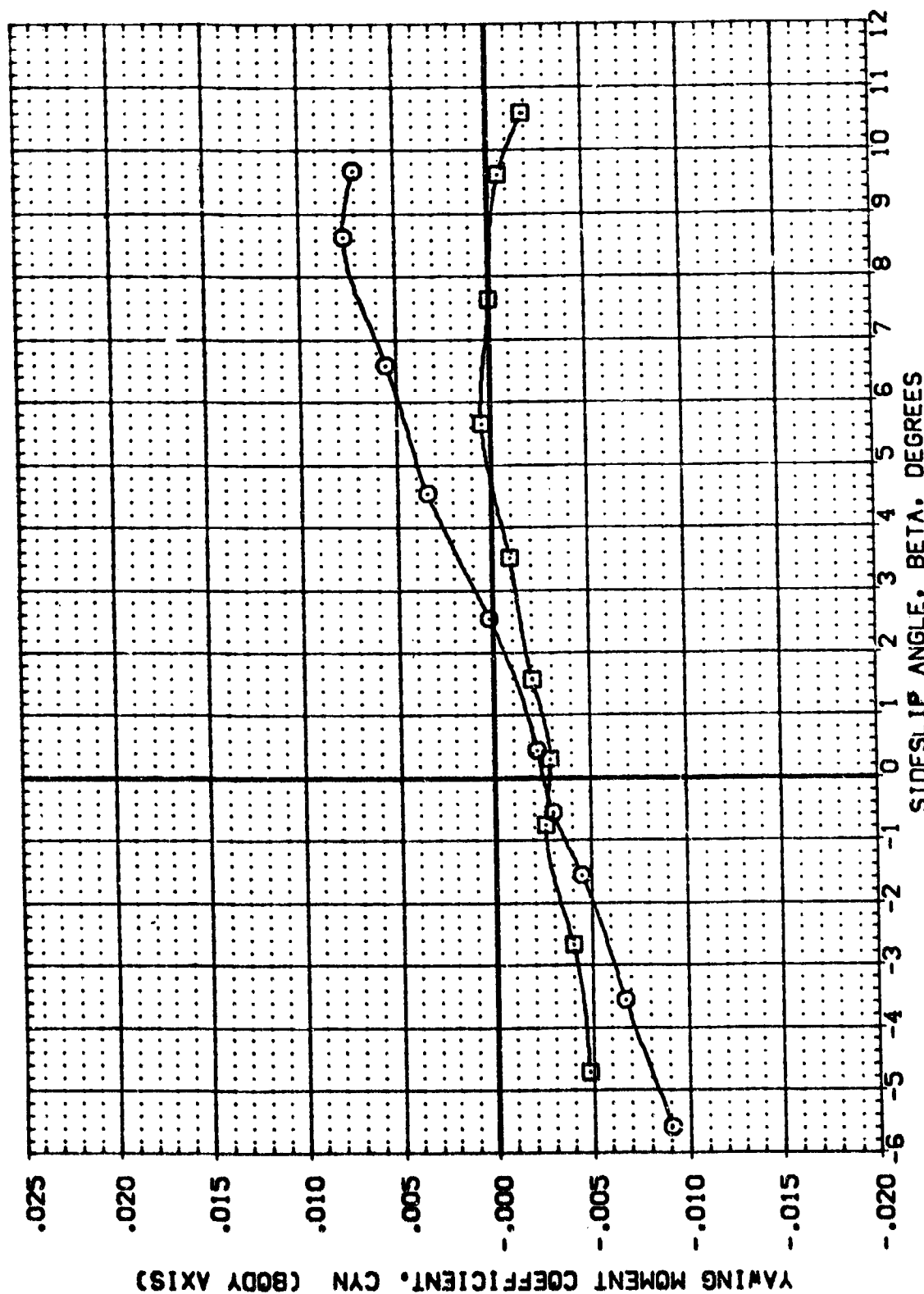


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(C)MACH = 1.20

DATA SET SYMB. CONFIGURATION DESCRIPTION
 (AST020) ☐ AVES 66-705 0A43 B10 C5 D7 MG F4 V07E18 VSRS
 (AGC'S) ☐ AVES 66-705 0A43 B10 C5 D7 MG F4 V67E18 VSRS

ALPHA BOOF LP SPOBRK RUOER
 .000 -14.200 54.900
 10.000 -14.200 54.900

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XTRP 1076.4800 IN.
 YTRP .0000 IN.
 ZTRP 400.0000 IN.
 SCALE .0150

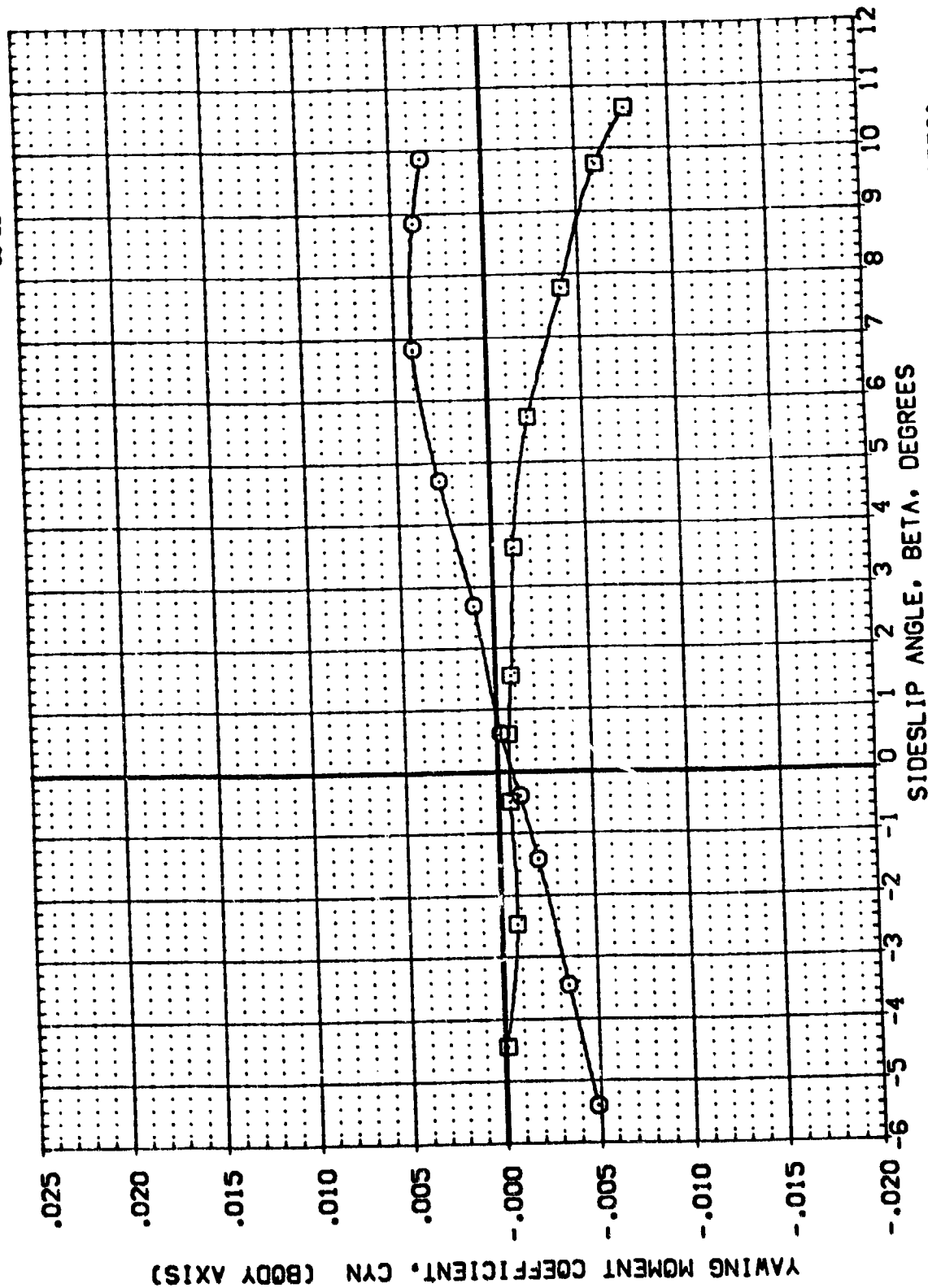


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION	
(ABT023)	9	AVES 66-706	0A13	810	CS	D7	H3	F4	V87E18	V5R5	SREF	2630.0000	SQ.FT.
(ABT019)		AVES 66-706	0A13	810	CS	D7	H3	F4	V87E18	V5R5	LREF	474.8000	IN.
											BREF	936.6800	IN.
											XTRP	1076.4800	IN.
											YTRP	.0000	IN.
											ZTRP	400.0000	IN.
											SCALE	.0150	IN.
ALPHA		BOOFLP		SPDRK		RUDDER							
10.000		-14.200		54.900		.000							
				54.500		.000							

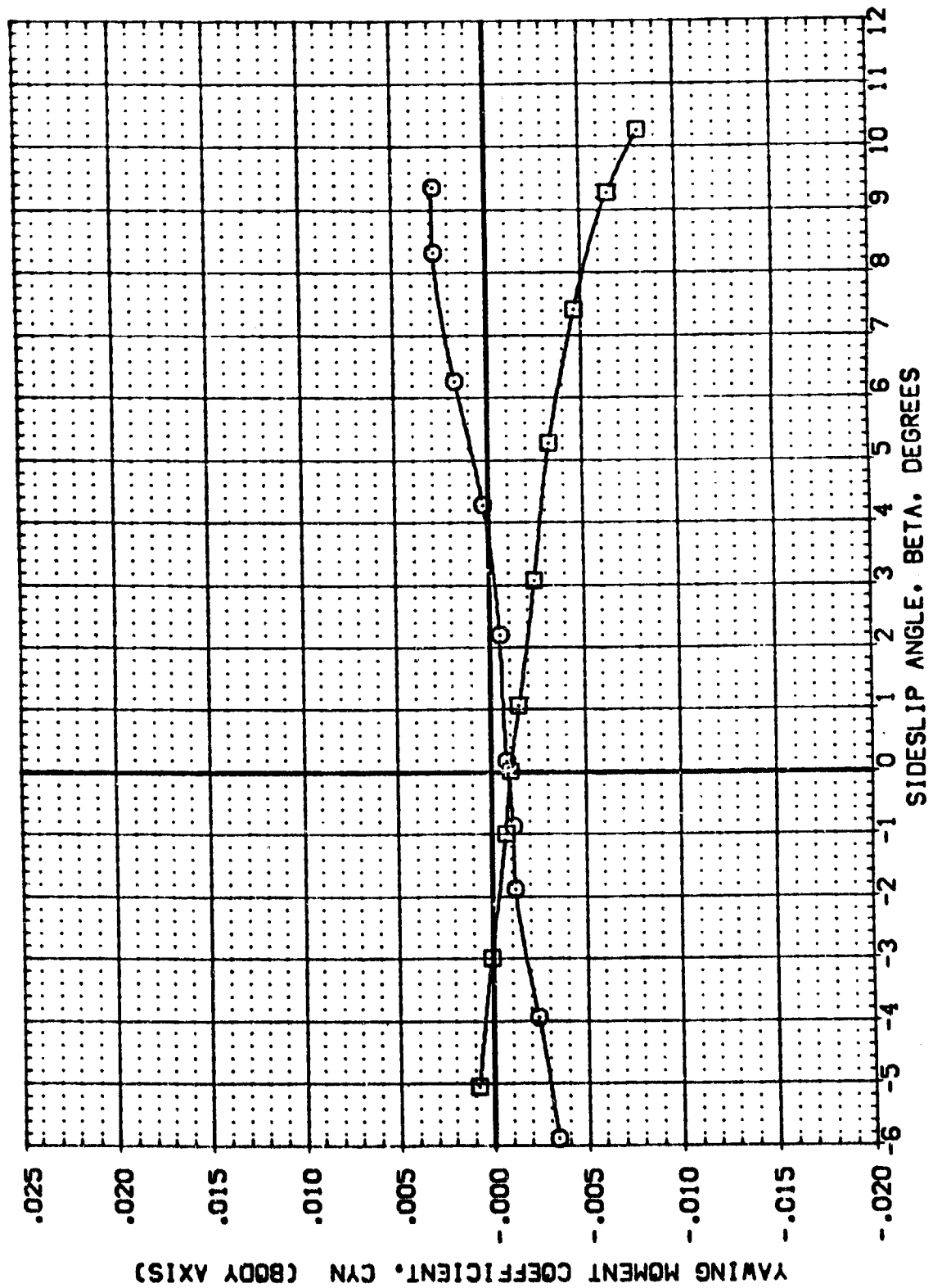


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(E)MACH = 2.00

DATA SET SYMB. (A87020) (A87019)

CONFIGURATION DESCRIPTION
 A87020 66-706 DA43 B10 CS 07 H3 F4 V87E18 VS85
 A87019 66-706 DA43 B10 CS 07 H3 F4 V87E18 VS85

ALPHA 8005LP 8005RK 8005R
 .000 -14.200 54.900
 10.000 -14.200 54.900

REFERENCE INFORMATION
 SREF 2690.0000 50.0000
 LREF 474.8000 10.0000
 BREF 936.8000 10.0000
 XPRP 1076.1800 10.0000
 YPRP .0000 10.0000
 ZPRP .0000 10.0000
 SCALE 400.0000 10.0000

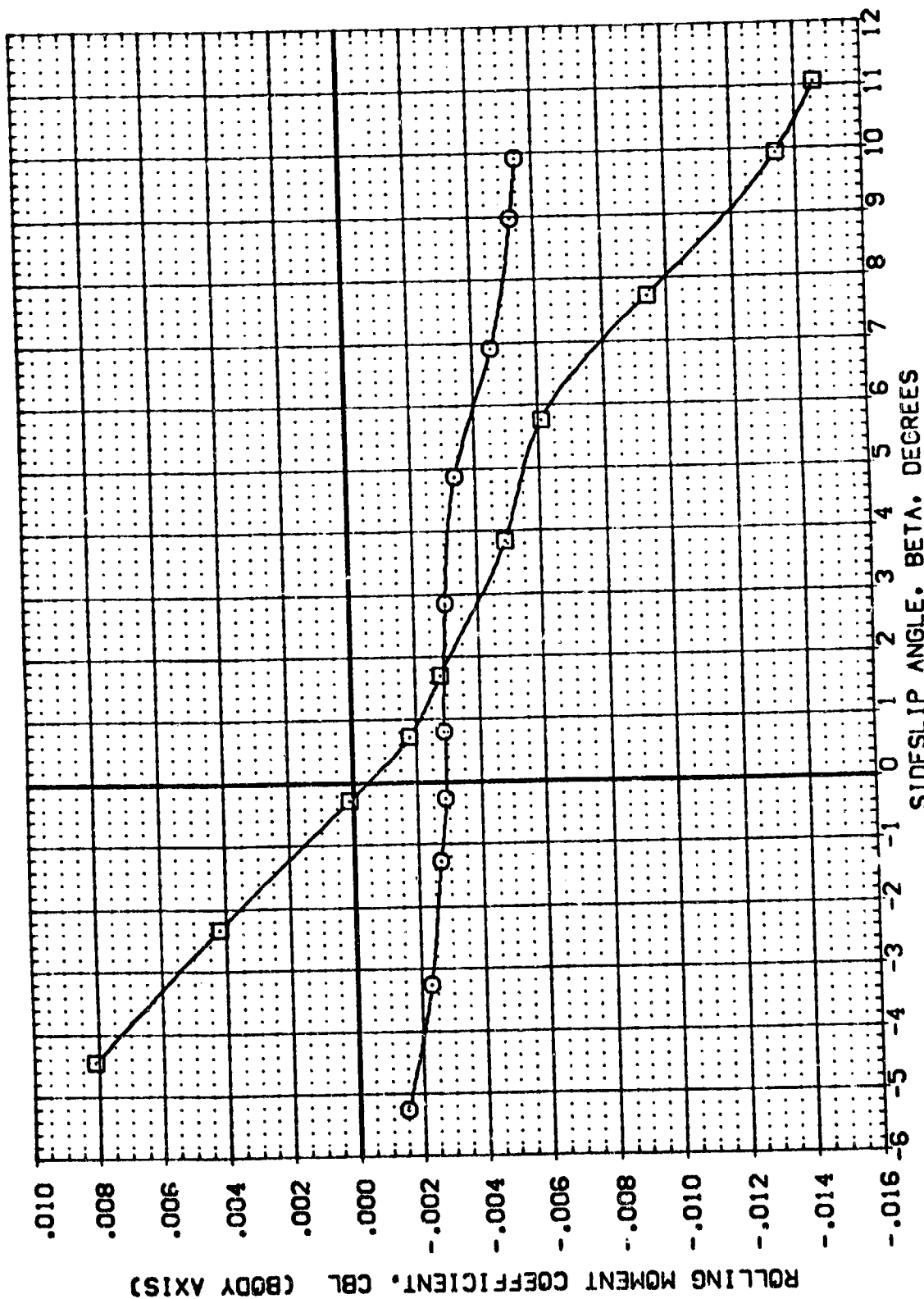


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOOFLP	SPOBRK	RUDDER	REFERENCE INFORMATION -
{AST020}	AMES 66-706 0A43 B10 CS D7 MG F4 V87E18 VS95	.000	-14.200	\$4.900	.000	\$REF 2690.0000 SQ.FT.
		.000		\$4.900	.000	LREF 474.8000
{AGTC19}	AMES 66-706 0A43 B10 CS D7 MG F4 V87E18 VS95	10.000	-14.200	\$4.900	.000	BREF 926.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE 400.0000
						SCALE .0150

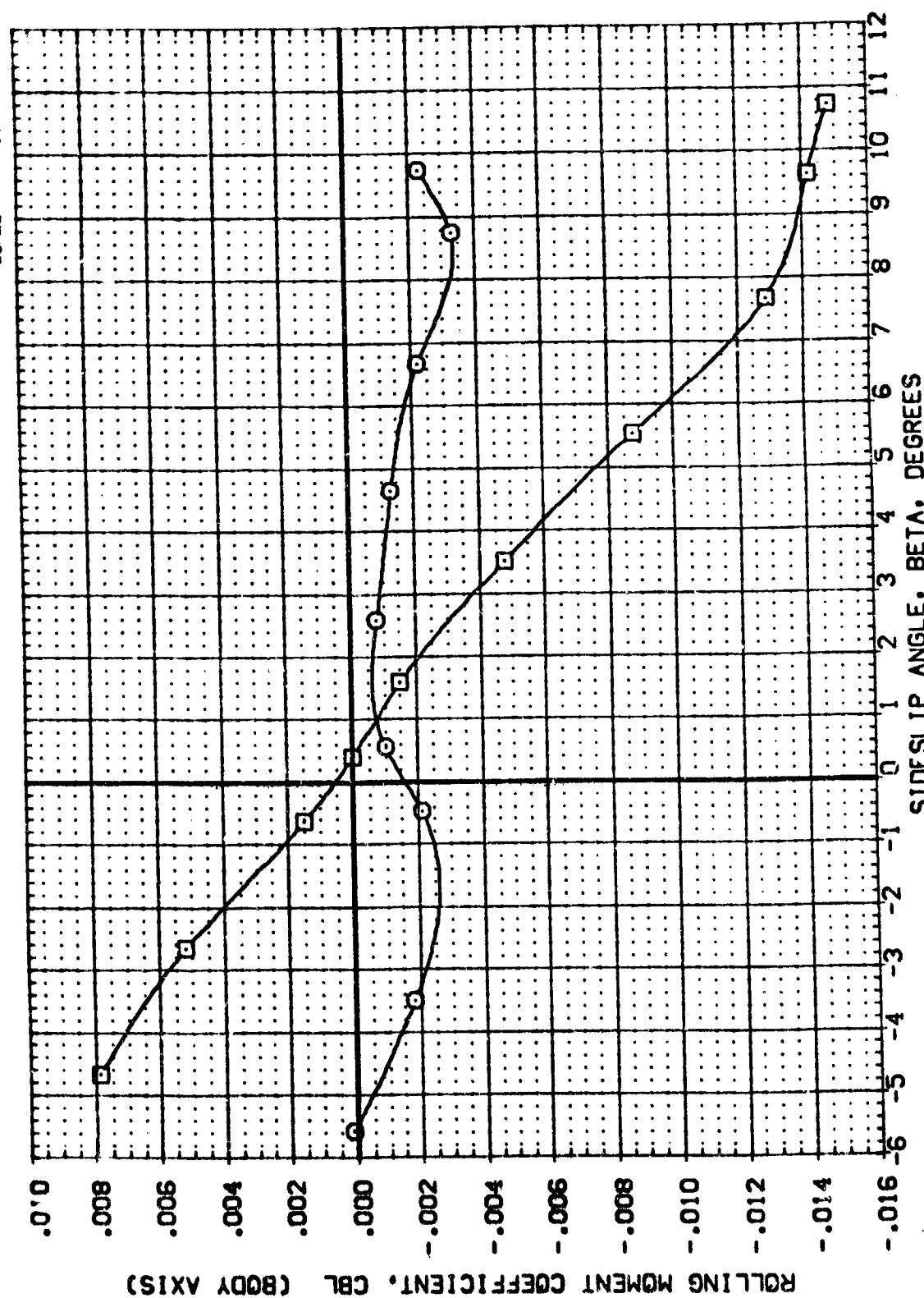


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS ($\alpha = 0.0$ AND 10.0 DEGREES)

(B)MACH = .90

DATA SET SYMBOL: (ABT020) (ABT015)

CONFIGURATION DESCRIPTION: AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595
 AYES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595

REFERENCE INFORMATION: REF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

ALPHA: .000 10.000
 BODYLP: -14.200 -14.200
 SPOBRK: 54.900 54.900
 RUDDER: .000 .000

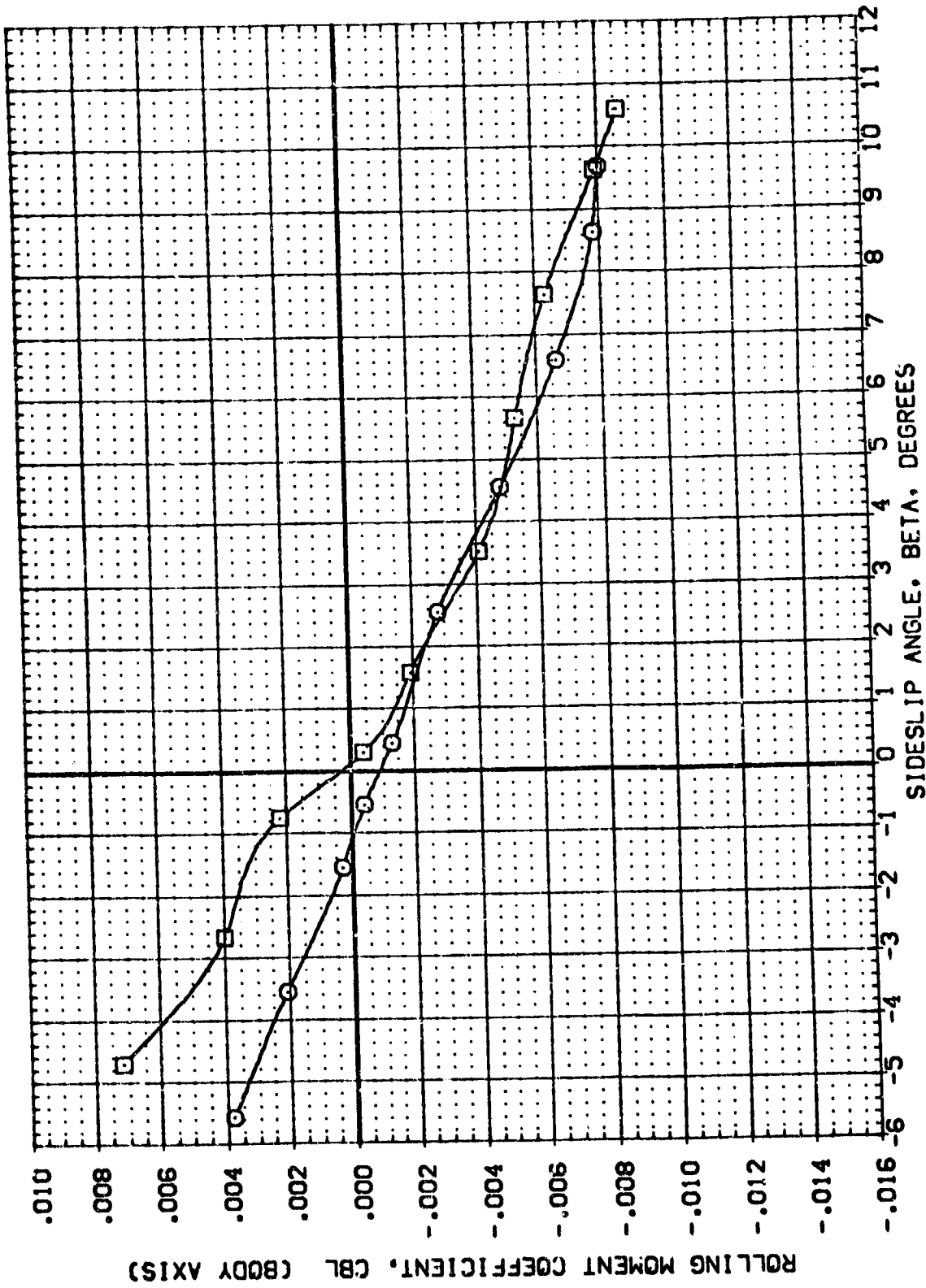


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(C)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION	
: 457C20		AVES 65-706 0M3 810 CS 07 M3 F4 V87E18 V5P5										SREF 2690.0000 SQ.FT.	
: 457C19		AVES 65-706 0M3 810 CS 07 M3 F4 V87E18 V5P5										LREF 474.8000 IN.	
												BREF 936.6800 IN.	
												XMRP 1076.4800 IN.	
												YMRP .0000 IN.	
												ZMRP 400.0000 IN.	
												SCALE .0150 SCALE	

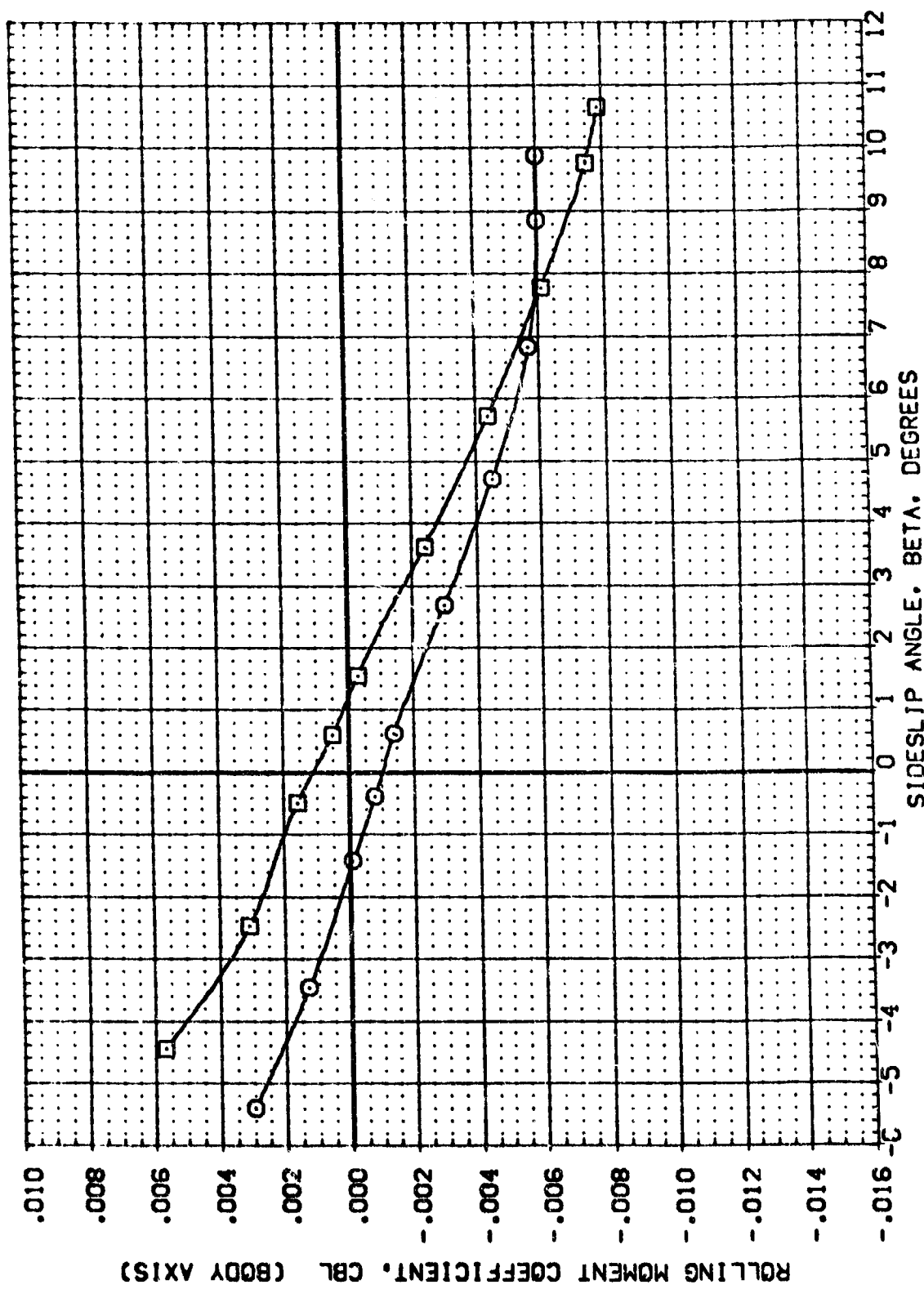


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(DMACH = 1.50



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ABT020) 1000 66-705 0413 B10 CS D7 M3 F4 V87E18 V5R5
(ABT019) 1000 66-705 0413 B10 CS D7 M3 F4 V87E18 V5R5

ALPHA 800FLP 500BK RUDDER
10.000 -14.200 54.900
.000 -14.200 54.900
SREF 2500.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.6800 IN.
XMRP 1076.4800 IN.
YMRP .0000 IN.
ZMRP 400.0000 IN.
SCALE .0150

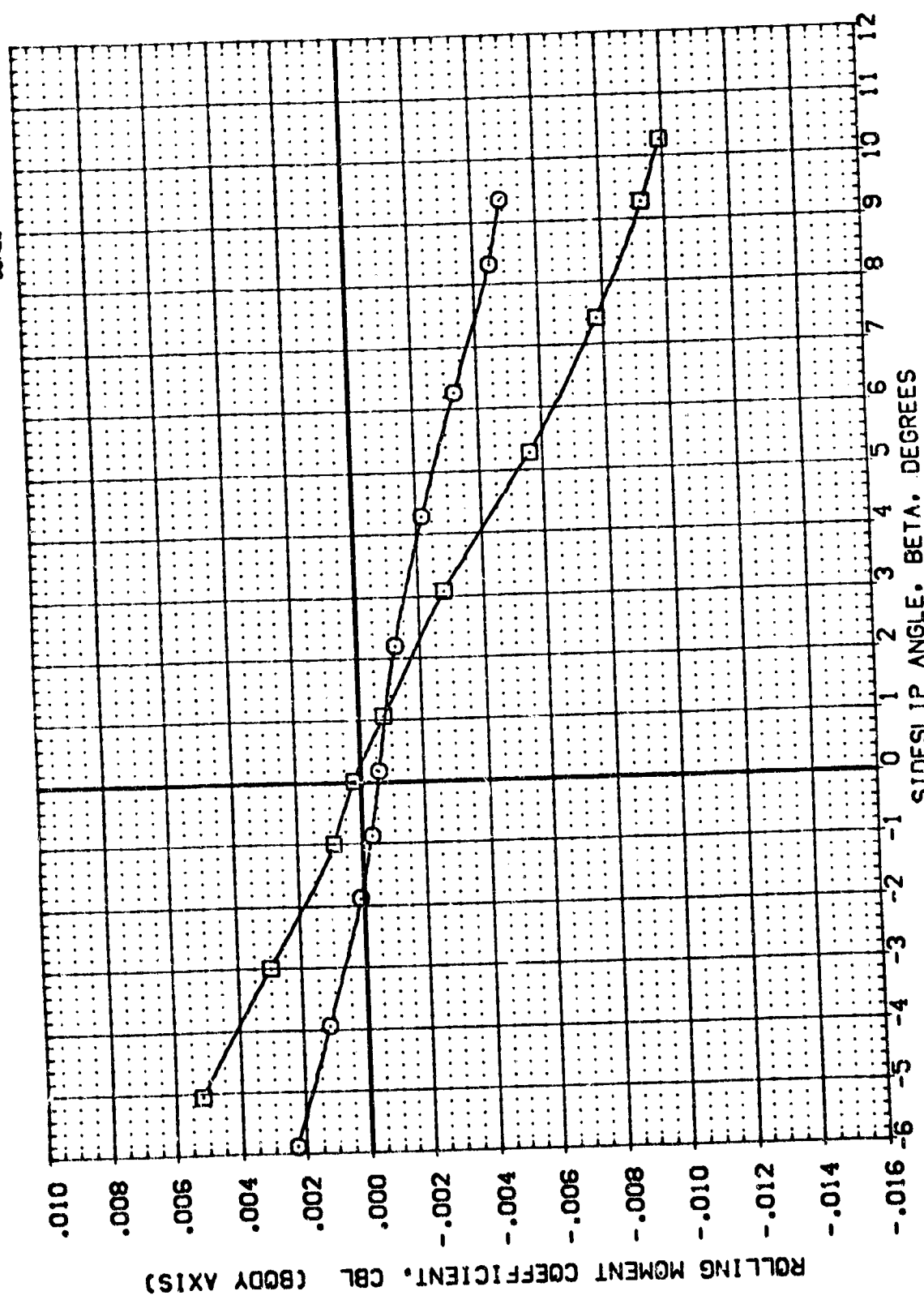


FIG. 17 LATERAL-DIRECTIONAL CHARACTERISTICS (ALPHA=0.0 AND 10.0 DEGREES)

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOOFLP	SPDRBY	RJODER	REFERENCE INFORMATION
{A81020}	APES 66-706 1 13 B10 CS D7 M3 F4 V87E18 VSRS	.000	-14.200	54.900	.000	SREF 2690.0000 SQ.FT.
{A81019}	APES 66-706 1 13 B10 CS D7 M3 F4 V87E18 VSRS	10.000	-14.200	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						VMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

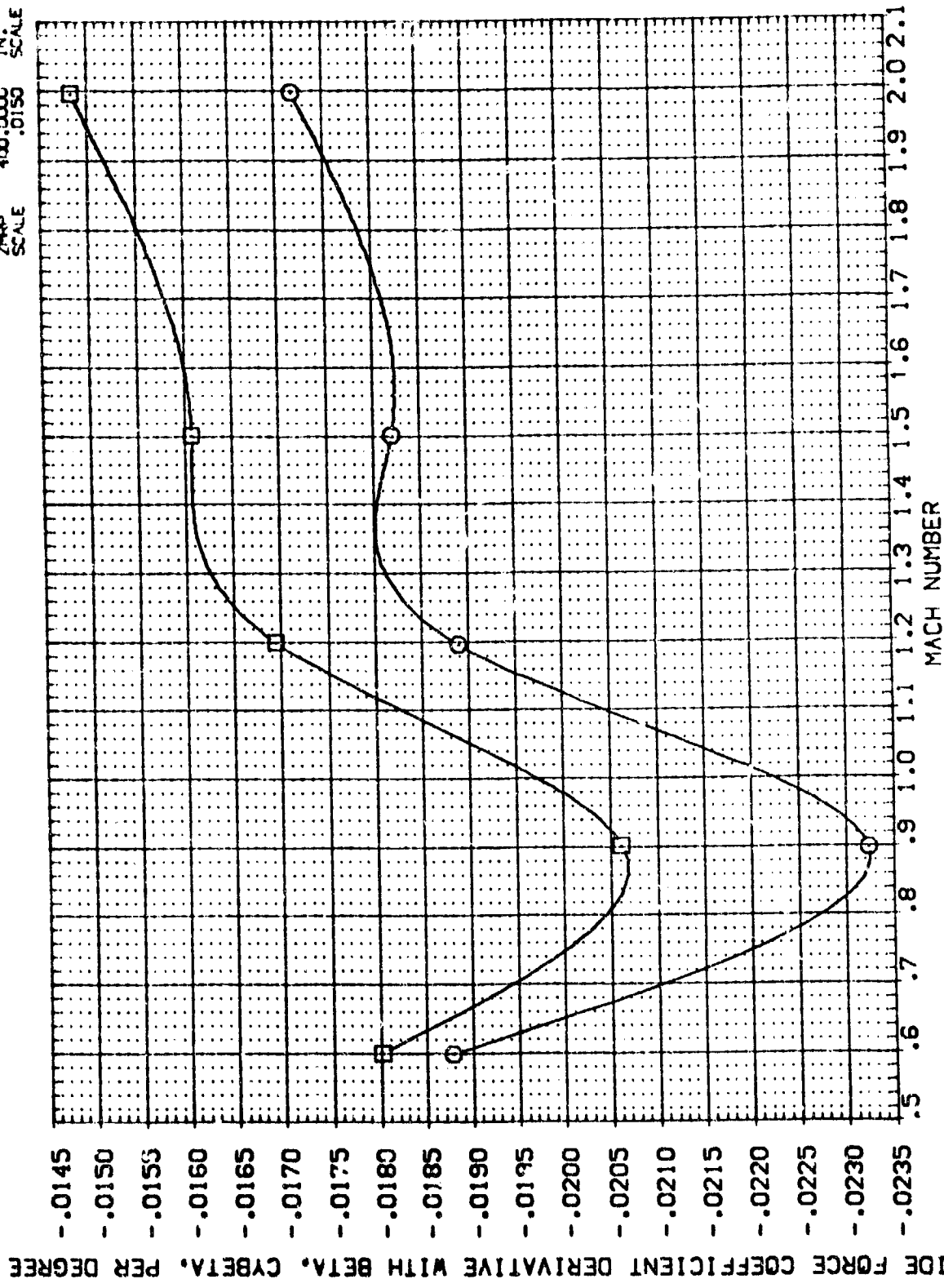


FIG. 18 LATERAL-DIRECTIONAL DERIVATIVES (ALPHA=0.0 AND 10.0 DEGREES)



DATA SET SYMBOL: (ABT020) (ABT019)

CONFIGURATION DESCRIPTION:
AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 V595
AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 V595

ALPHA: .000
10.000

BOOFLP: -14.200
-14.200

SPDRBK: 54.900
54.900

RUDER: .000
.000

REFERENCE INFORMATION:
SREF: 2690.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XMRP: 1076.4800 IN.
YMRP: .0000 IN.
ZMRP: 400.0000 IN.
SCALE: .0150

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

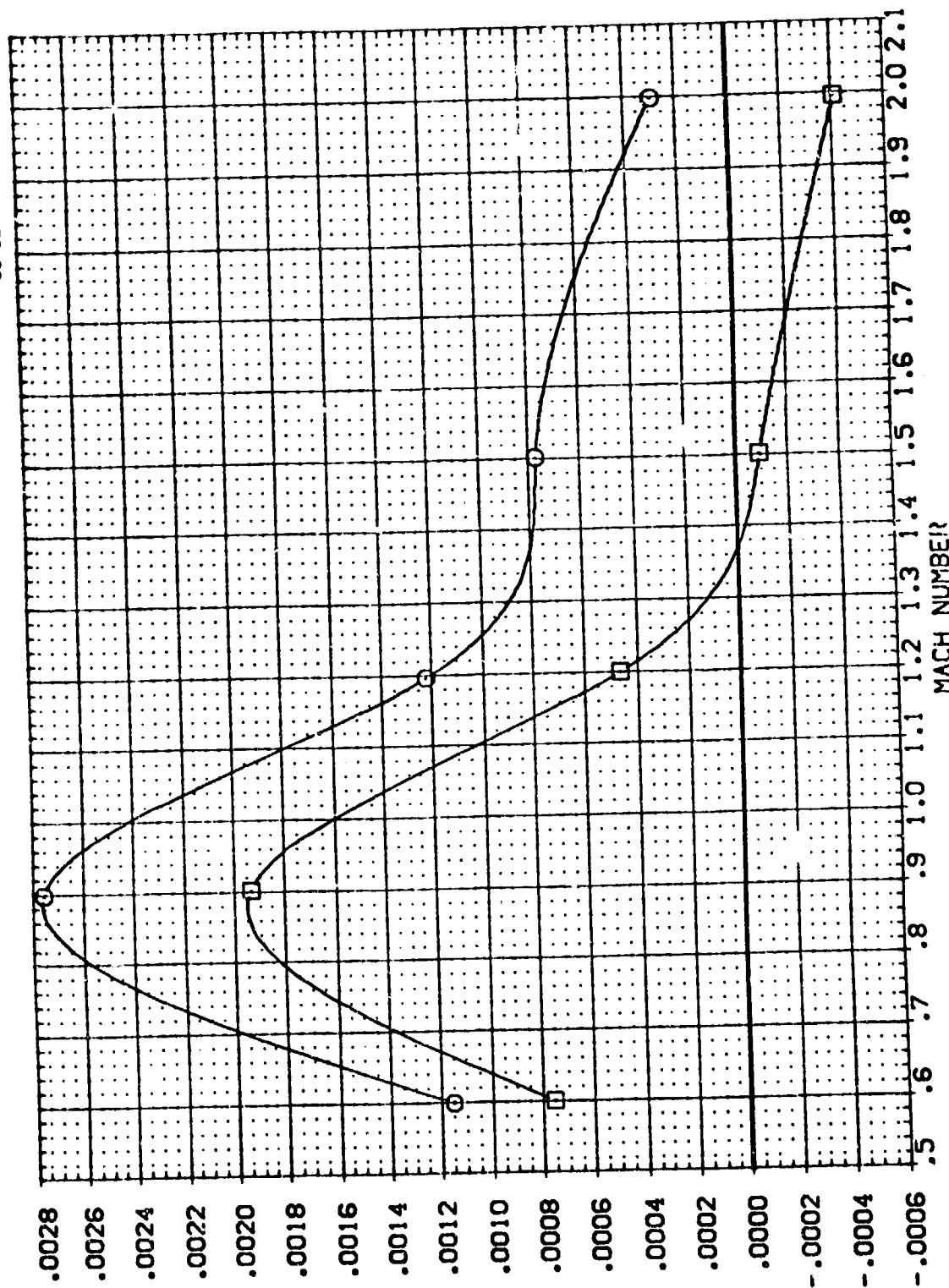


FIG. 18 LATERAL-DIRECTIONAL DERIVATIVES (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOOF LP	SPDRK	RUDER	REFERENCE INFORMATION
(ABT020)	AVES 66-706 0A43 810 CS 07 M3 F4 V87E18 VS05	.000	-14.200	54.900	.000	SREF 2630.0000 SQ.FT.
(ABT019)	AVES 66-706 0A43 810 CS 07 M3 F4 V87E18 VS05	10.000	-14.200	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YPRP 1076.4800 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

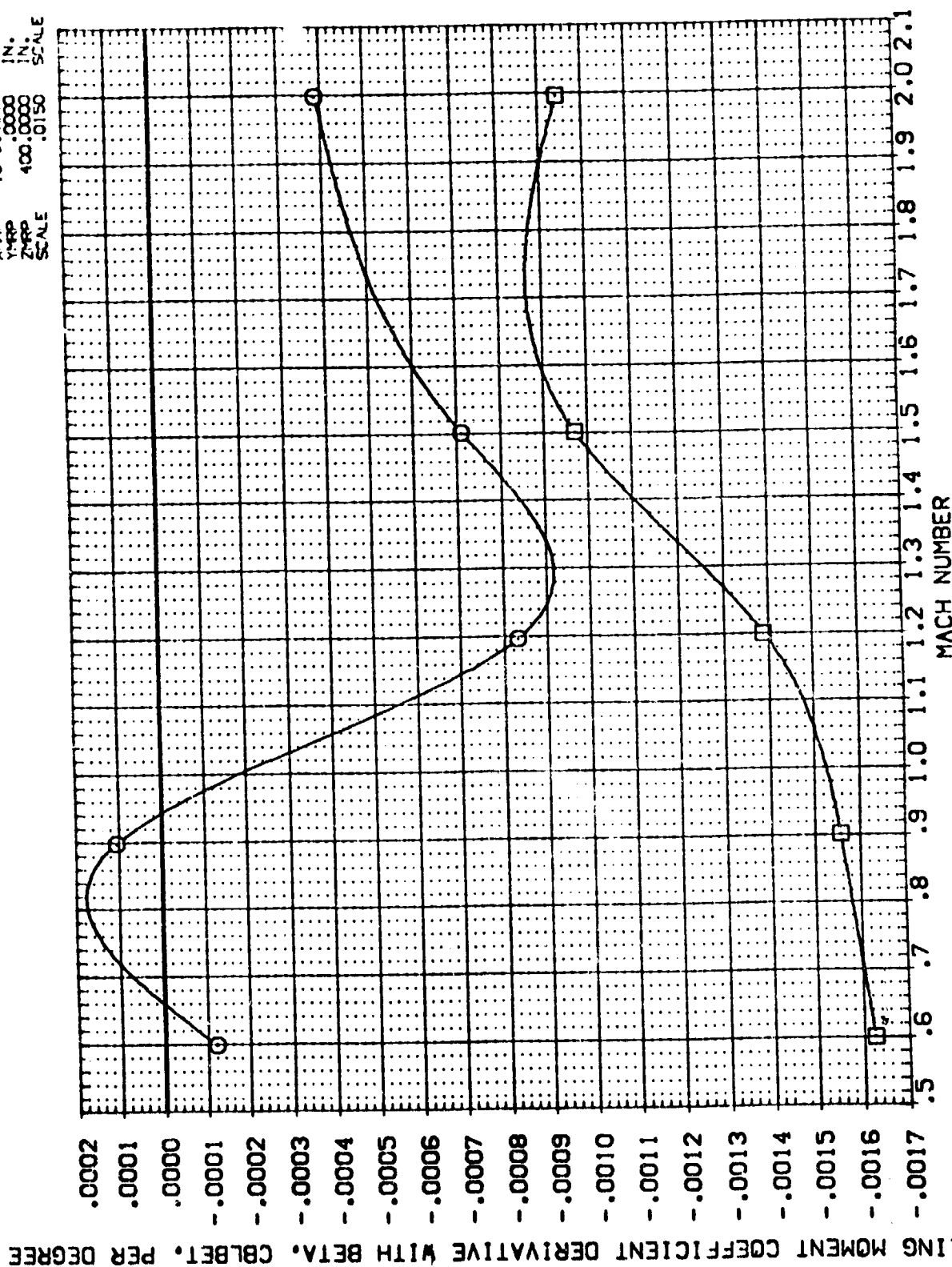


FIG. 18 LATERAL-DIRECTIONAL DERIVATIVES (ALPHA=0.0 AND 10.0 DEGREES)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPORRY	REFERENCE INFORMATION
(ABT008)	AVES 66-706 DM43 B10 CS D7 PG F4 V87E18 V59S	5.000	.000	-14.200	54.500	SREF 2650.0000 SQ.FT.
(ABT009)	AVES 66-706 DM43 B10 CS D7 PG F4 V87E18 V59S	5.000	-10.000	-14.200	54.500	LREF 474.8000 IN.
(ABT018)	AVES 66-706 DM43 B10 CS D7 PG F4 V87E18 V59S	5.000	-20.000	-14.200	54.500	SREF 936.6800 IN.
(ABT004)	AVES 66-706 DM43 B10 CS D7 PG F4 V87E18 V59S	.000	.000	-14.200	54.500	XREF 1076.4800 IN.
						YREF 100.0000 IN.
						ZREF .0150 SCALE

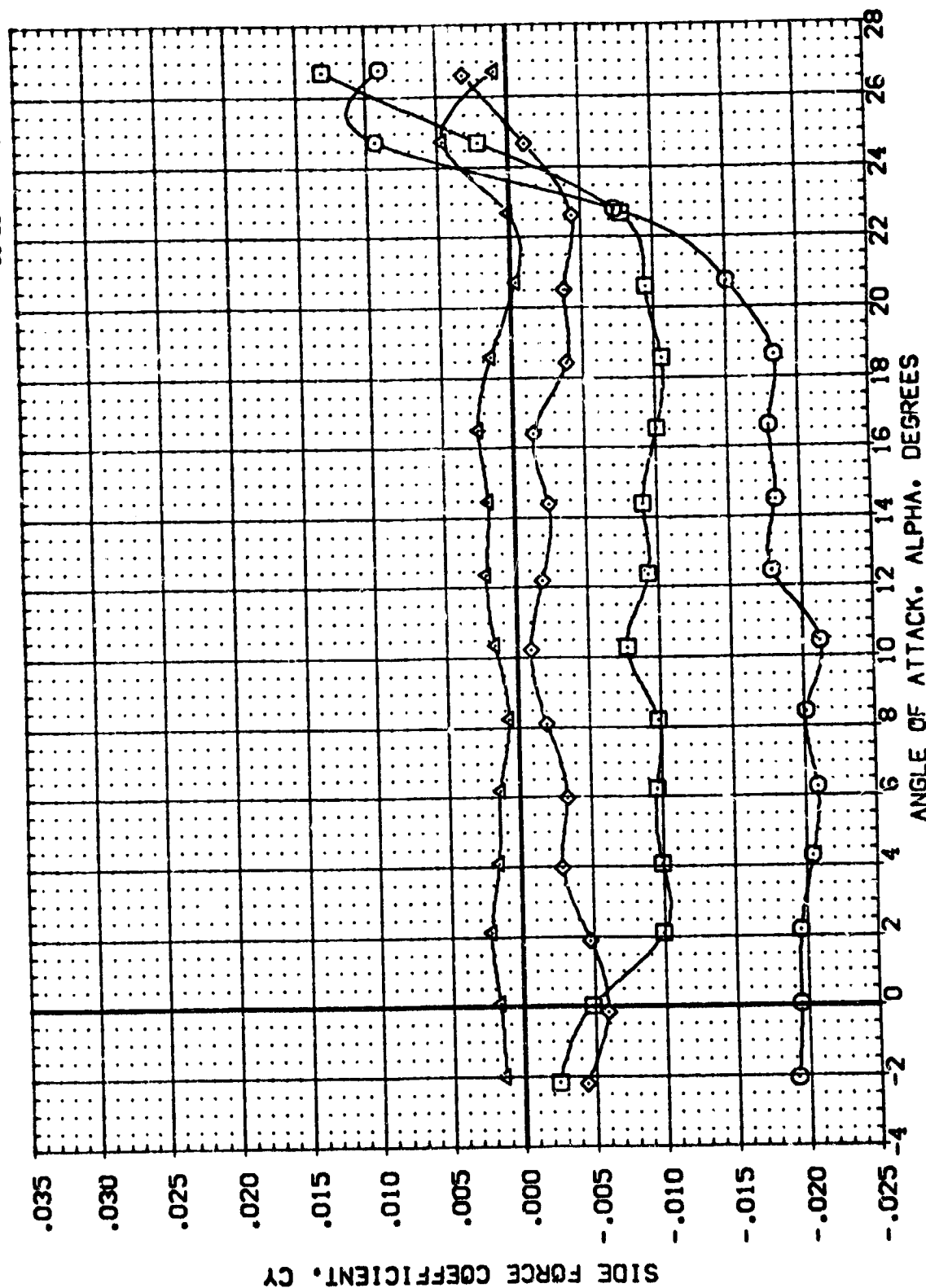


FIG. 19 AILERONS DEFLECTED

(A)MACH = .59

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOBRK	REFERENCE INFORMATION
(ABT008)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
(ABT009)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
(ABT010)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
(AS-004)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	-14.200	54.900	XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

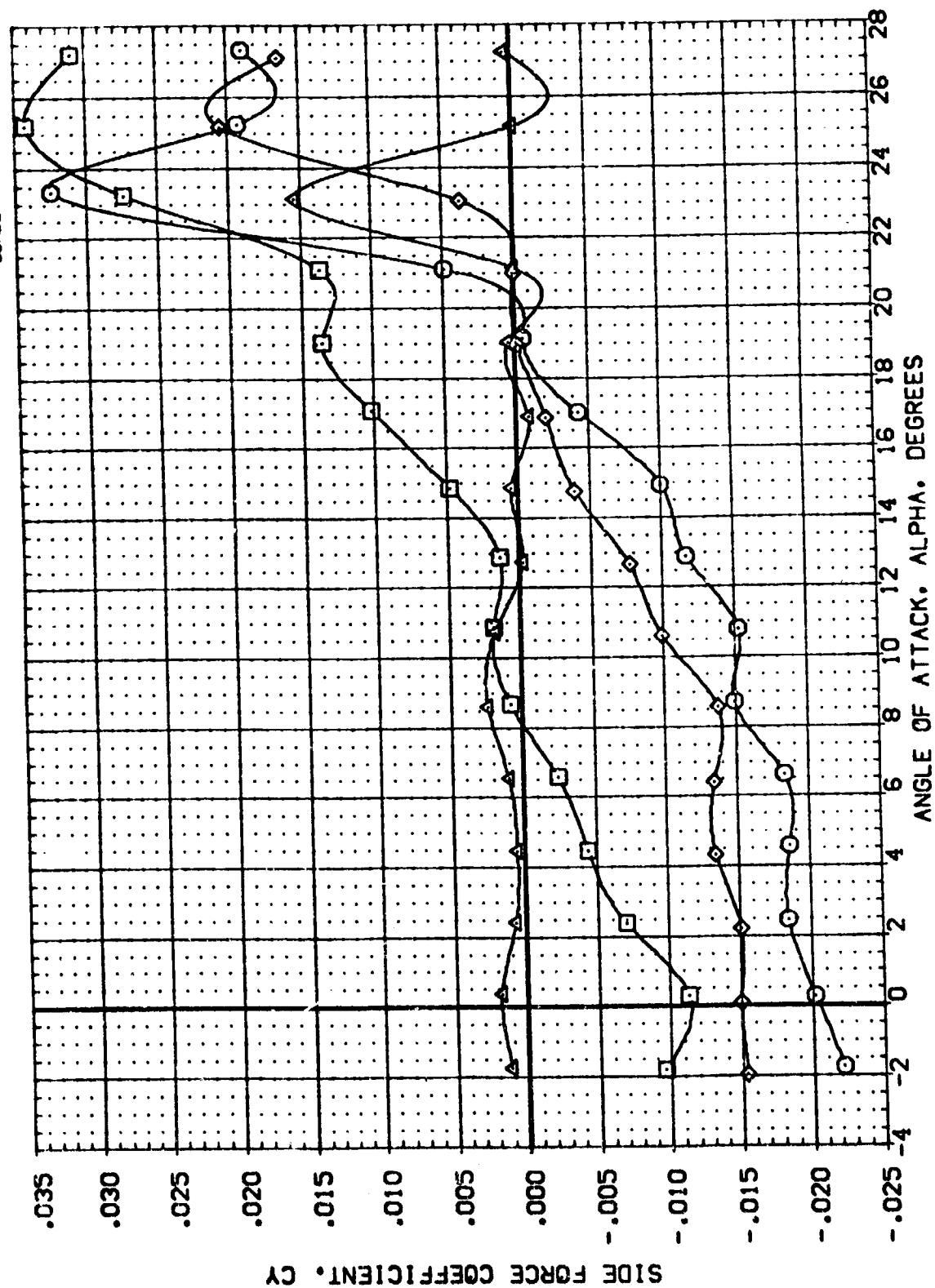
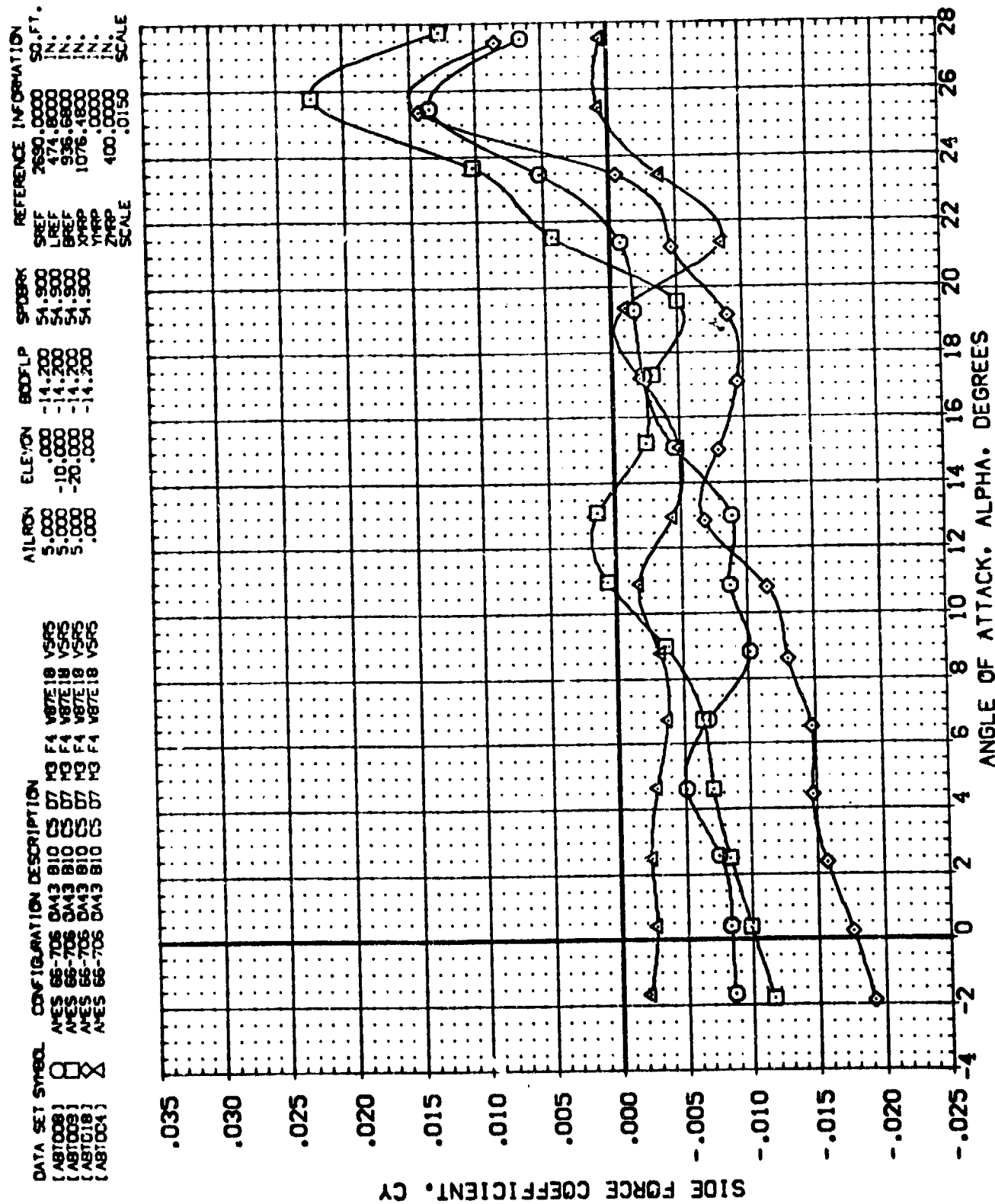


FIG. 19 AILERONS DEFLECTED

(B)MACH = .90



[C]MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPOBRK	REFERENCE INFORMATION
[A37008]	AVES 66-706 0A43 B10 CS D7 H3 F4 V67E18 V505	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
[A37009]	AVES 66-706 0A43 B10 CS D7 H3 F4 V67E18 V505	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
[A37010]	AVES 66-706 0A43 B10 CS D7 H3 F4 V67E18 V505	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
[A37011]	AVES 66-706 0A43 B10 CS D7 H3 F4 V67E18 V505	.000	.000	-14.200	54.900	XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

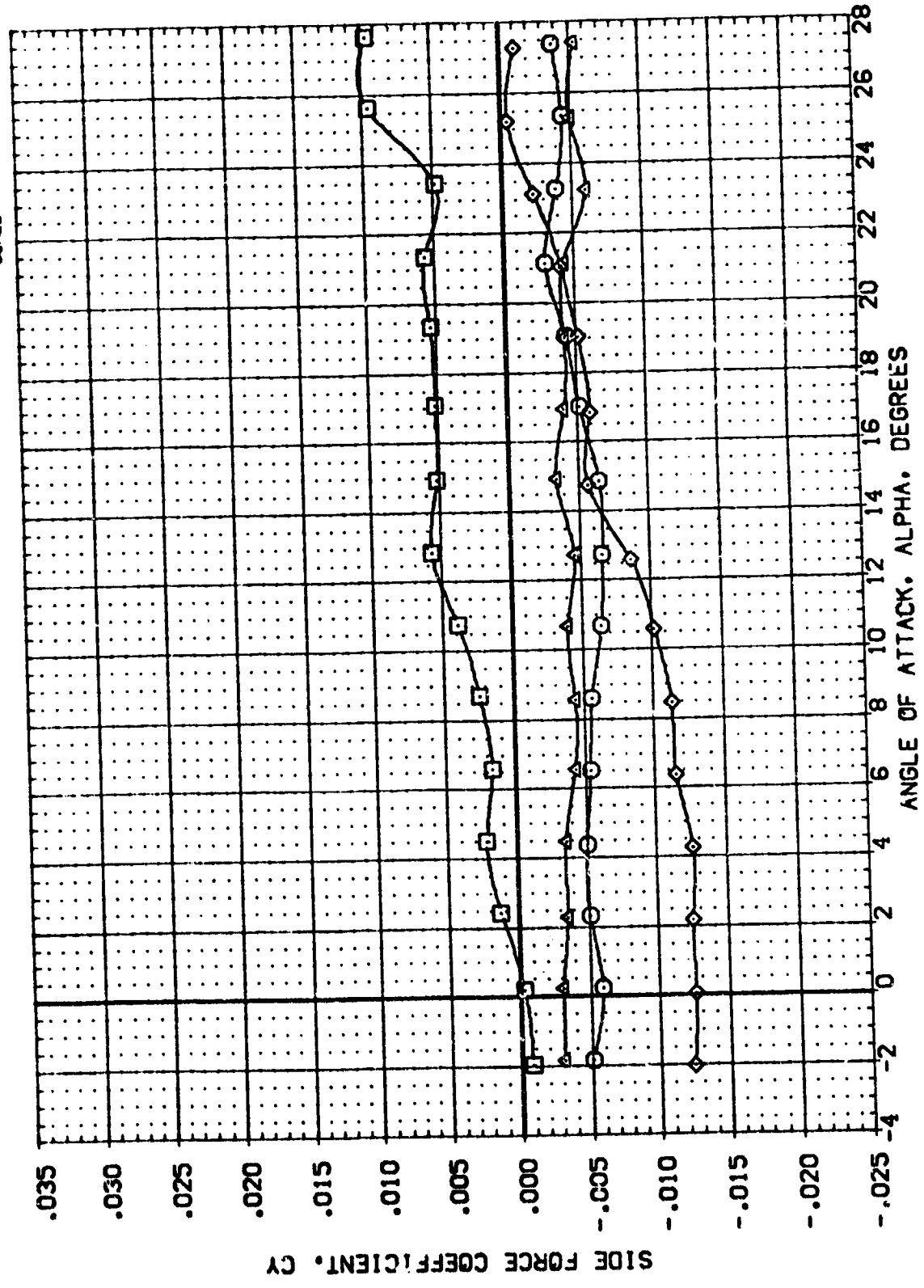


FIG. 19 AILERONS DEFLECTED

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOBRK	REFERENCE INFORMATION
(A8-009)	AVES 66-706 CM3 B10 CS D7 K3 F4 V87E18 VSRG	5.000	.000	-14.200	54.500	SREF 2630.0000 SQ.FT.
(A8-009)	AVES 66-706 CM3 B10 CS D7 K3 F4 V87E18 VSRG	5.000	-10.000	-14.200	54.500	LREF 471.6000 IN.
(A8-018)	AVES 66-706 CM3 B10 CS D7 K3 F4 V87E18 VSRG	5.000	-20.000	-14.200	54.500	BREF 936.6800 IN.
(A8-004)	AVES 66-706 CM3 B10 CS D7 K3 F4 V87E18 VSRG	.000	.000	.000	.000	YMRP 1076.4800 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

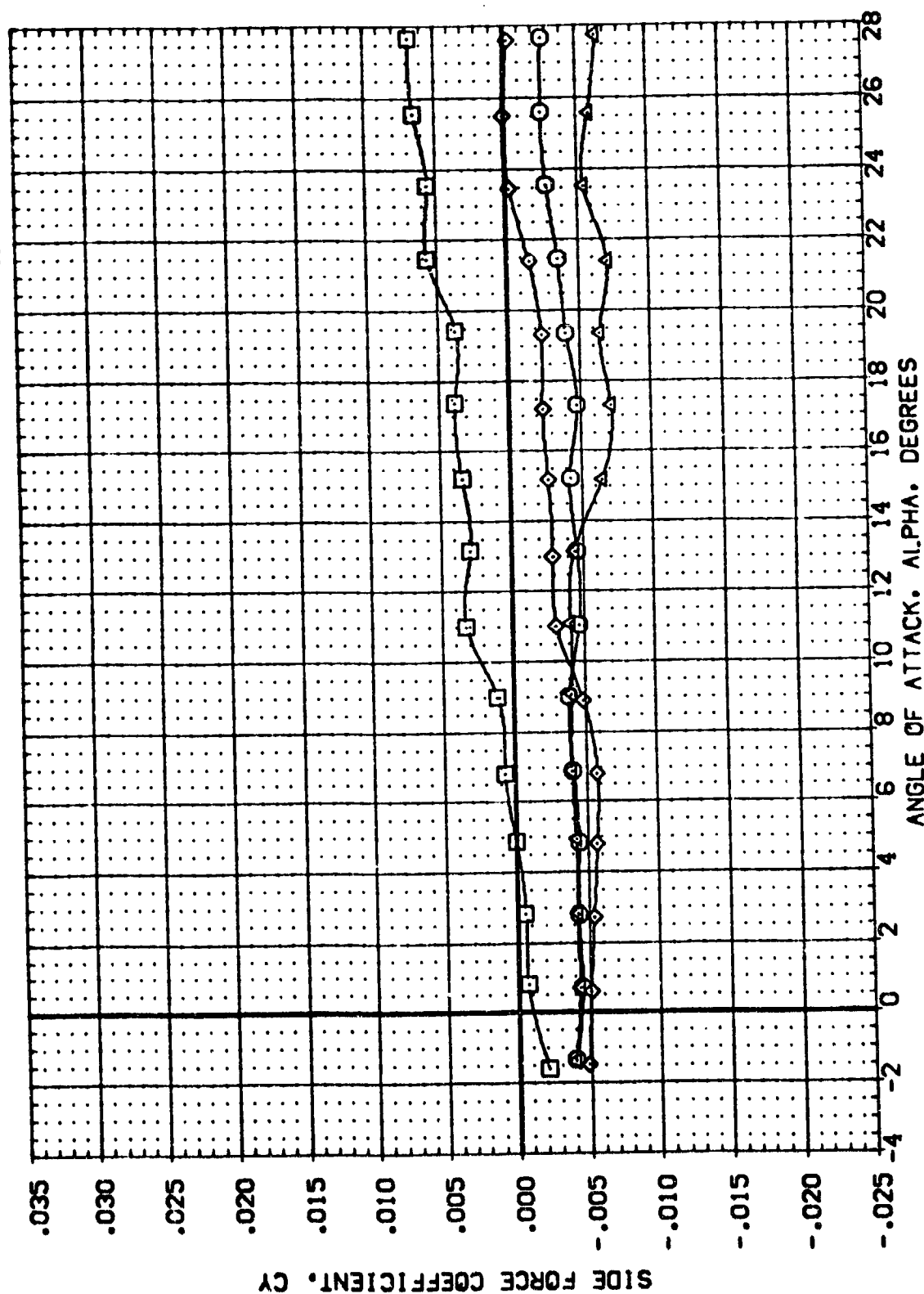


FIG. 19 AILERONS DEFLECTED
(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPOBRK	REFERENCE INFORMATION
[A9-008]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.500	SREF 2690.0000 50.FT.
[A9-009]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	-10.000	-14.200	54.500	LREF 474.8000 IN.
[A9-010]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	-20.000	-14.200	54.500	BREF 936.6800 IN.
[A9-011]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.500	XMRP 1076.4800 IN.
[A9-012]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.500	YMRP 400.0000 IN.
[A9-013]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.500	ZMRP 400.0000 IN.
[A9-014]	AMES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.500	SCALE .0150

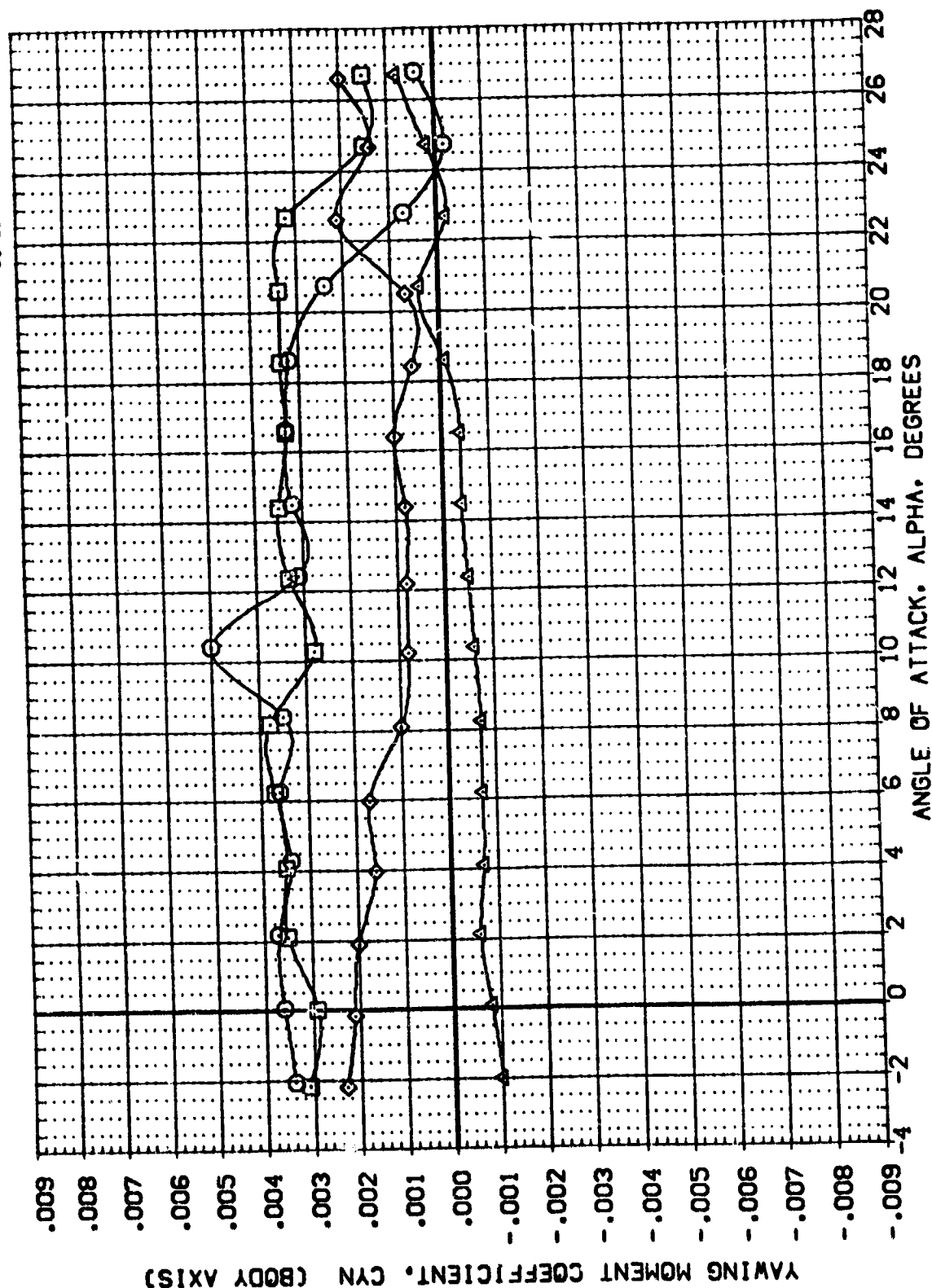


FIG. 19 AILERONS DEFLECTED

(A)MACH = .59

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPDBRK	REFERENCE INFORMATION
(ABT008)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.500	SREF 2630.0000 50.FT.
(ABT009)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-10.000	-14.200	54.500	LREF 474.8000 IN.
(ABT010)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-20.000	-14.200	54.500	BREF 936.6800 IN.
(ABT011)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.500	XMRP 1076.4800 IN.
(ABT012)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.500	YMRP 400.0000 IN.
(ABT013)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.500	ZMRP 400.0000 IN.
(ABT014)	AVES 68-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.500	SCALE .0150

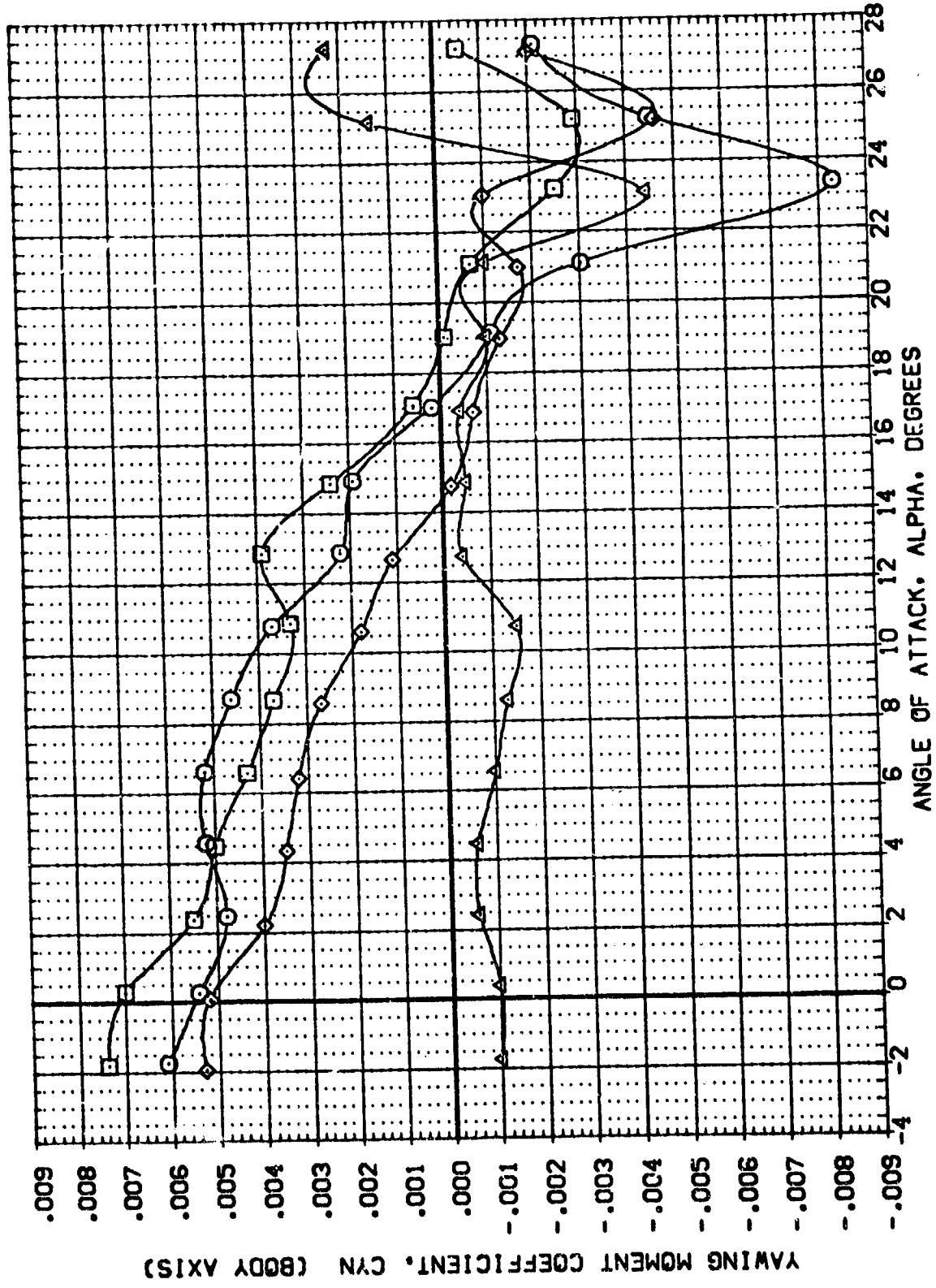


FIG. 19 AILERONS DEFLECTED
(B)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPDBRK	REFERENCE INFORMATION
[ABT028]	AVES 66-706 DA43 B:0 CS D7 M3 F4 V87E18 VSRS	5.000	0.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
[ABT029]	AVES 66-706 DA43 B:0 CS D7 M3 F4 V87E18 VSRS	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
[ABT030]	AVES 66-706 DA43 B:0 CS D7 M3 F4 V87E18 VSRS	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
[ABT031]	AVES 66-706 DA43 B:0 CS D7 M3 F4 V87E18 VSRS	5.000	0.000	-14.200	54.900	YPRP 1076.4800 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

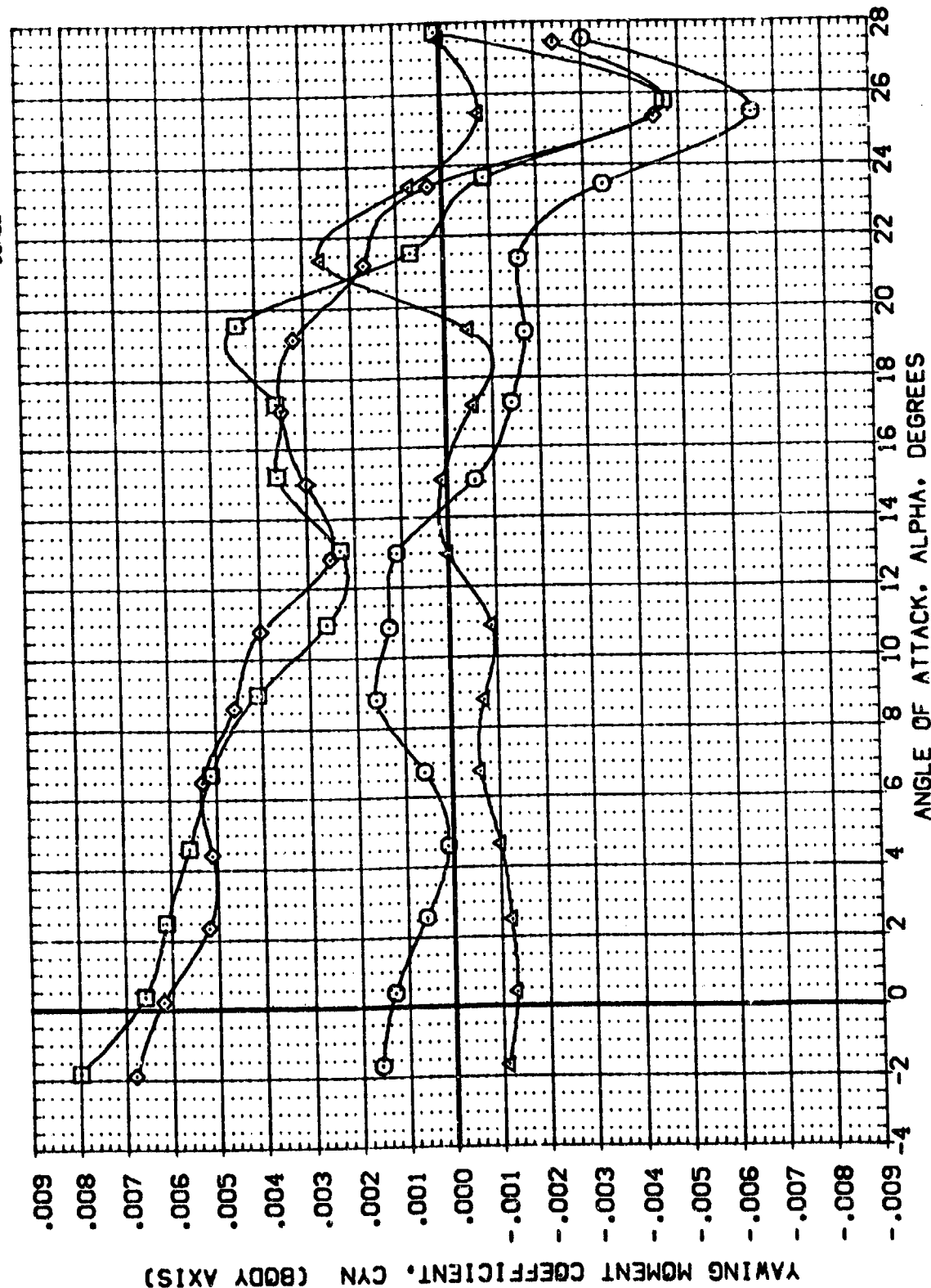


FIG. 19 AILERONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPDRK	REFERENCE INFORMATION
(ABT008)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 V5RS	5.000	.000	-14.200	54.900	SREF 2690.0000 SO.FT.
(ABT009)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 V5RS	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
(ABT010)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 V5RS	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
(ABT011)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 V5RS	.000	.000	-14.200	54.900	XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

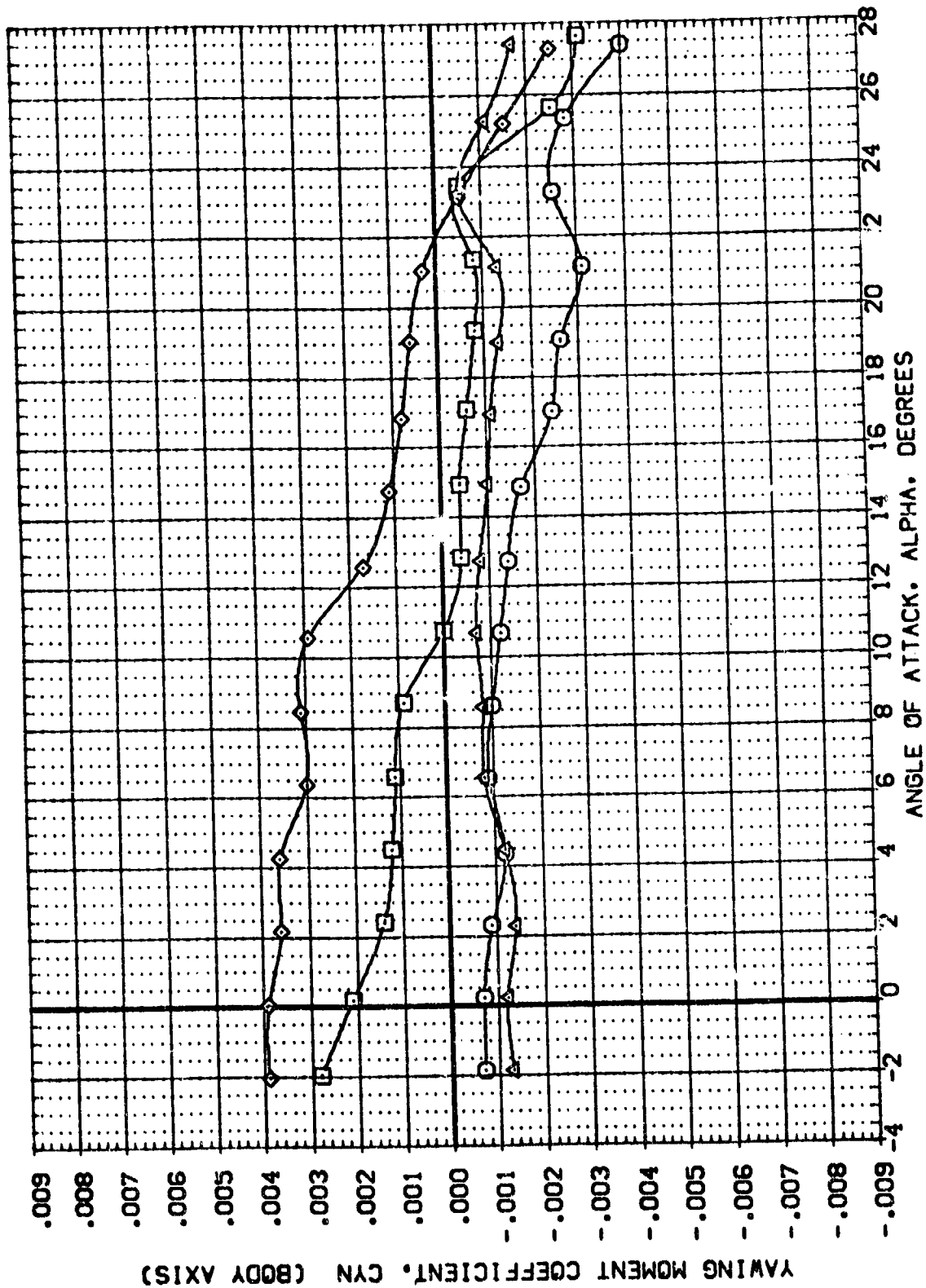


FIG. 19 AILERONS DEFLECTED

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	BOOF LP	SPC BRK	REFERENCE INFORMATION	SQ. FT.
(ASTOC8)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSR5	5.000	.000	-14.200	54.500	SREF 2690.0000	N.
(ASTOC9)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSR5	5.000	-10.000	-14.200	54.500	LREF 474.8000	N.
(ASTOC10)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSR5	5.000	-20.000	-14.200	54.500	BREF 936.6800	N.
(ASTOC11)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSR5	5.000	.000	-14.200	54.500	YMRP 1076.4800	N.
(ASTOC12)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSR5	5.000	.000	-14.200	54.500	ZMRP 400.0000	N.
						SCALE .0150	

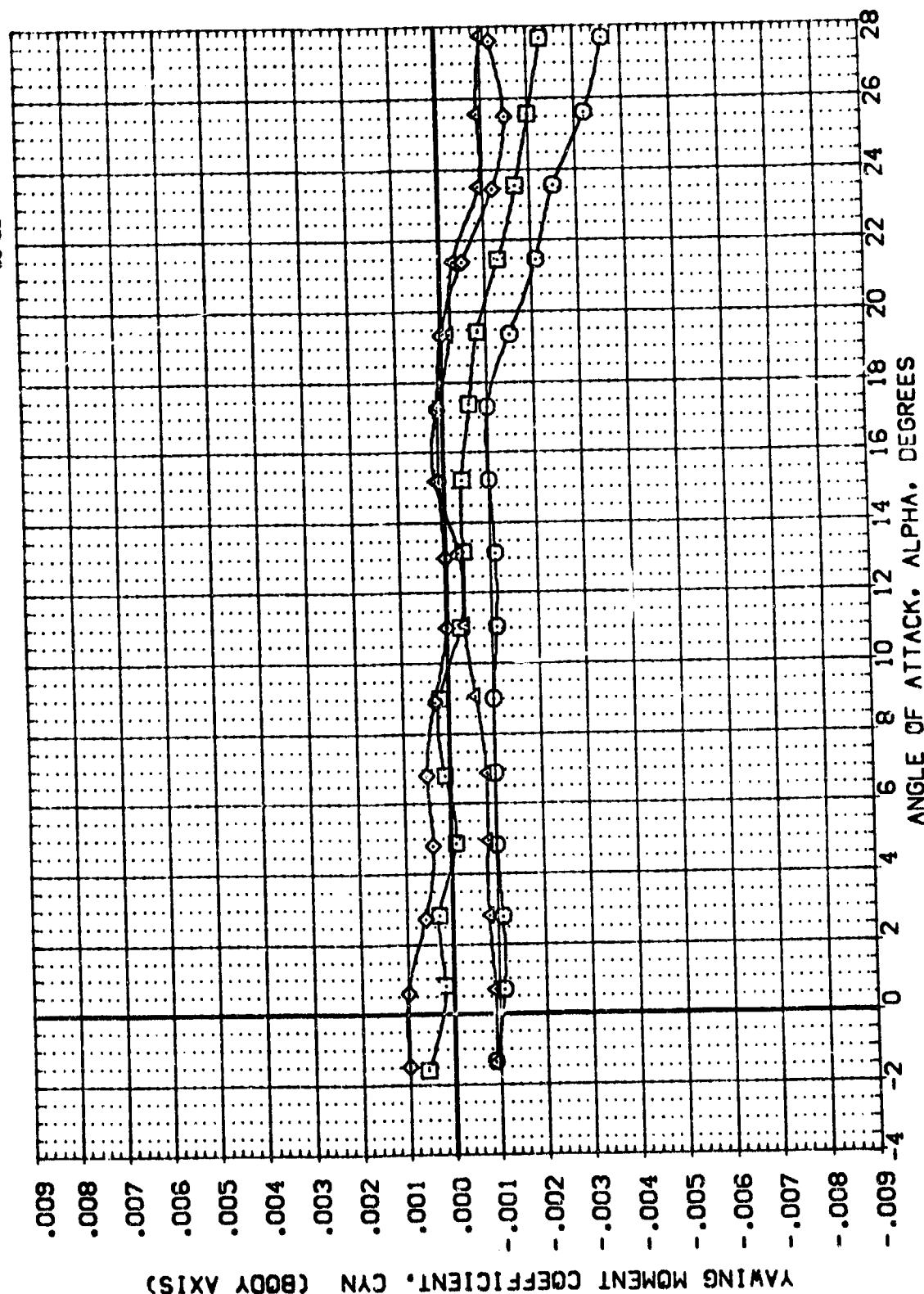


FIG. 19 AILERONS DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLIP	SPDRBK	REFERENCE INFORMATION	
(A) 008	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595	5.000	.000	-14.200	54.900	SREF	2690.0000 SQ.FT.
(A) 009	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595	5.000	-10.000	-14.200	54.900	LREF	474.8000 IN.
(A) 018	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595	5.000	-20.000	-14.200	54.900	BREF	936.8000 IN.
(A) 004	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V595	.000	.000	-14.200	54.900	XMRP	1076.1800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150

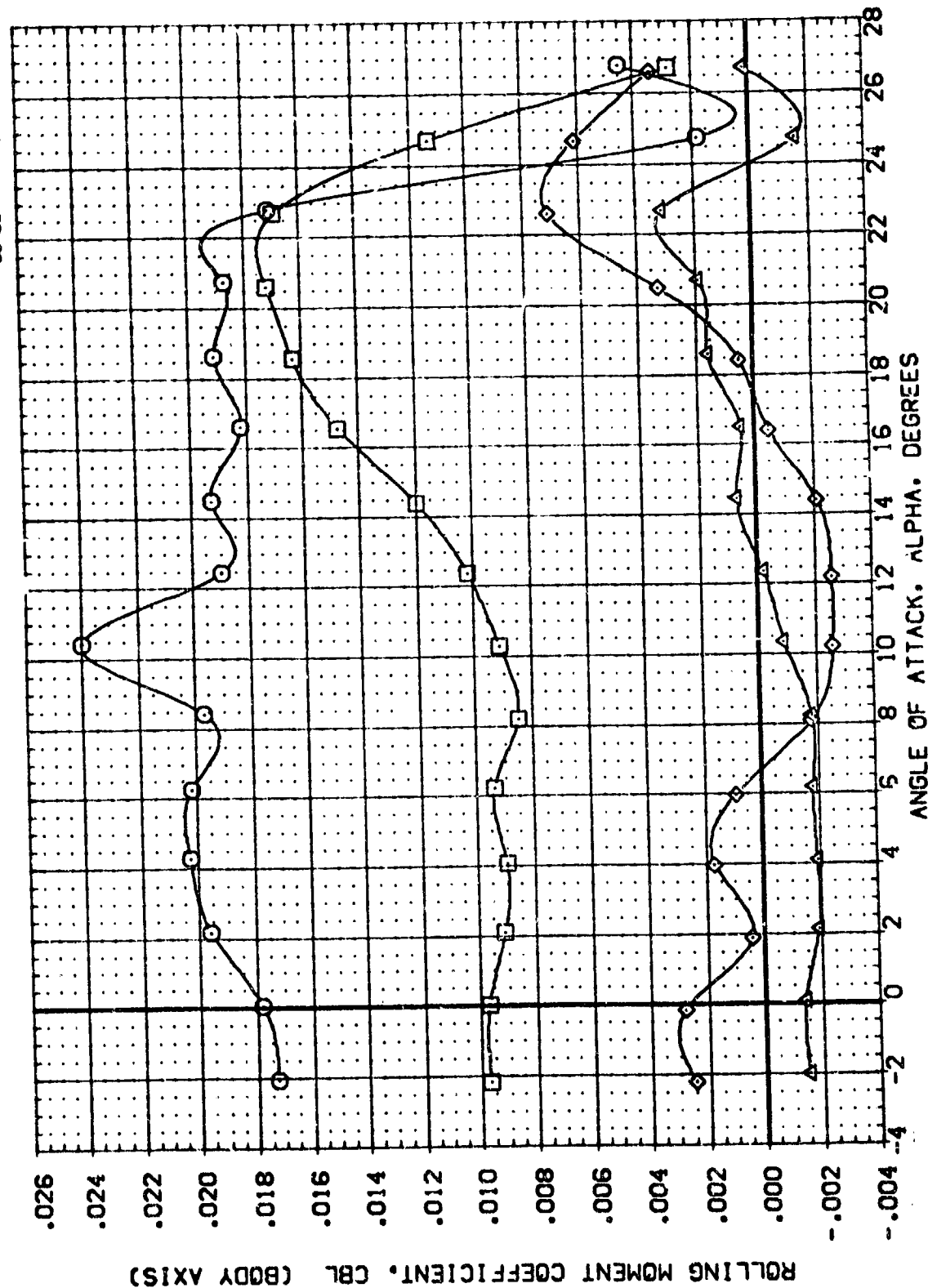


FIG. 19 AILERONS DEFLECTED

(A) MACH = .59

DATA SE	SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPOORX	REFERENCE II, SQUATION	SO, FT.
(ABTDC8)	○	AVES 66-706 0A43 B10 C5 D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	SREF 2690.0000	50.00
(ABTDC9)	□	AVES 66-706 0A43 B10 C5 D7 M3 F4 V87E18 V59S	5.000	-10.000	-14.200	54.900	LREF 474.8000	10.00
(ABTDC1)	△	AVES 66-706 0A43 B10 C5 D7 M3 F4 V87E18 V59S	5.000	-20.000	-14.200	54.900	BREF 976.6800	10.00
(ABTDC4)	◇	AVES 66-706 0A43 B10 C5 D7 M3 F4 V87E18 V59S	.000	.000	-14.200	54.900	ZREF 1000.0000	10.00
							ZPRP 400.0000	10.00
							SCALE .0150	SCALE

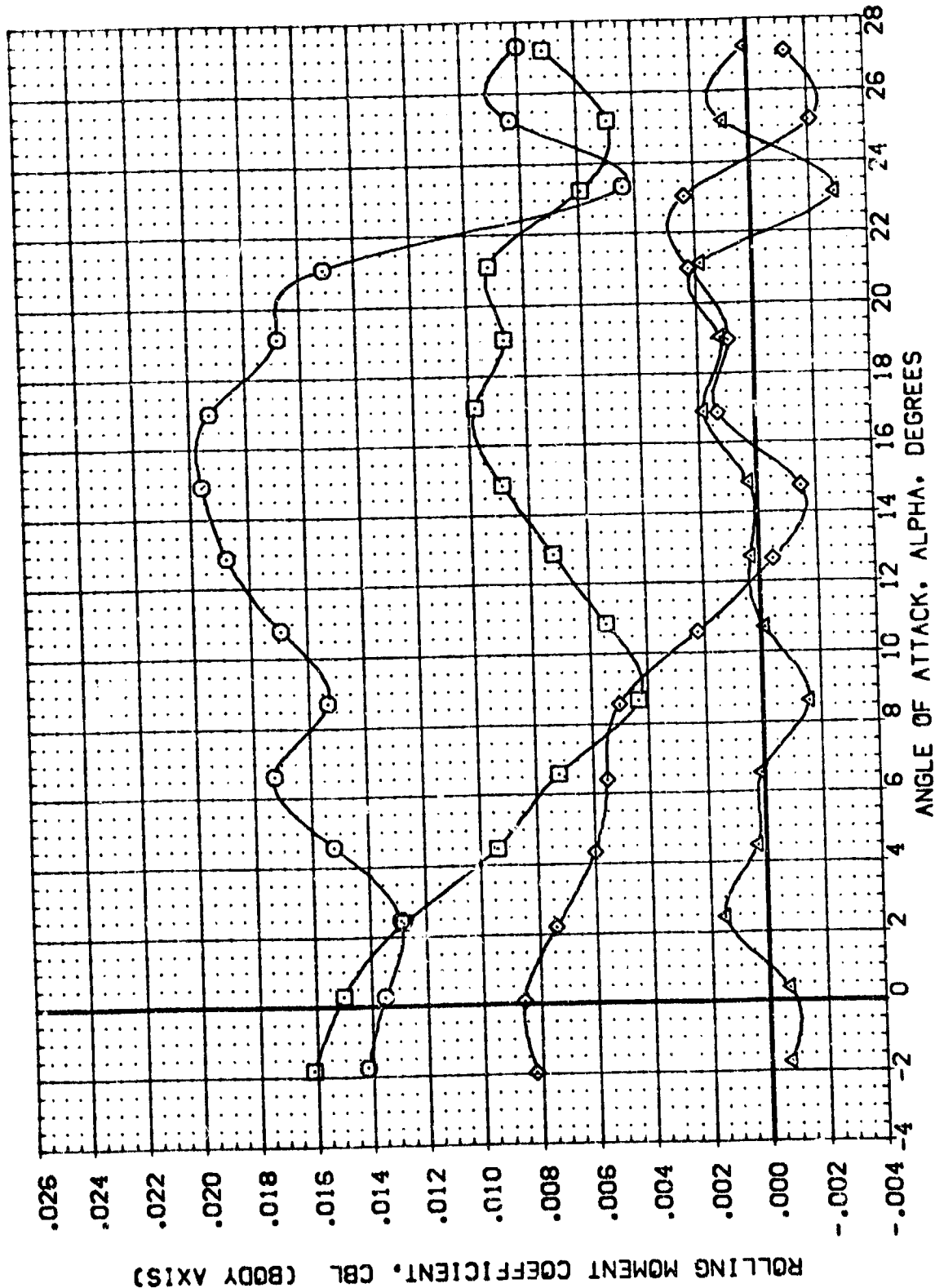


FIG. 19 AILERONS DEFLECTED

(B) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPDRX	REFERENCE INFORMATION
(AST008)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
(AST009)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
(AST010)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
(AST001)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	.000	.000	-14.200	54.900	XPRP 1076.1800 IN.
						YPRP .0000 IN.
						ZPRP .0000 IN.
						SCALE 400.0000
						SCALE .0150

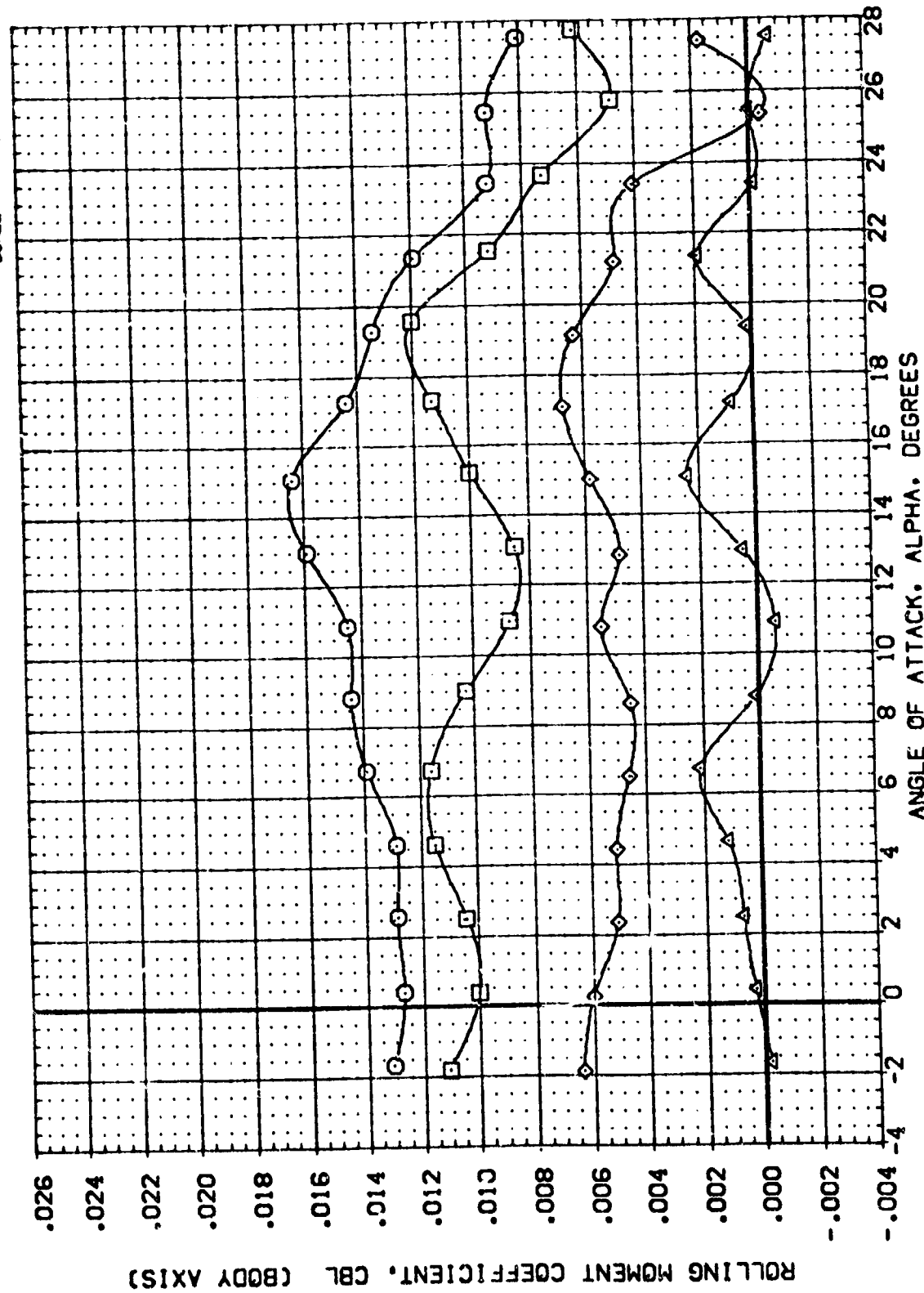


FIG. 19 AILERONS DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOBARK	REFERENCE INFORMATION
(ABT008)	AVES 66-706 0A43 B10 CS D7 F3 F4 V87E18 V5K5	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
(ABT009)	AVES 66-706 0A43 B10 CS D7 F3 F4 V87E18 V5K5	5.000	-10.000	-14.200	54.900	LREF 474.8000 IN.
(ABT010)	AVES 66-706 0A43 B10 CS D7 F3 F4 V87E18 V5K5	5.000	-20.000	-14.200	54.900	BREF 936.6800 IN.
(ABT004)	AVES 66-706 0A43 B10 CS D7 F3 F4 V87E18 V5K5	.000	.000	-14.200	54.900	XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

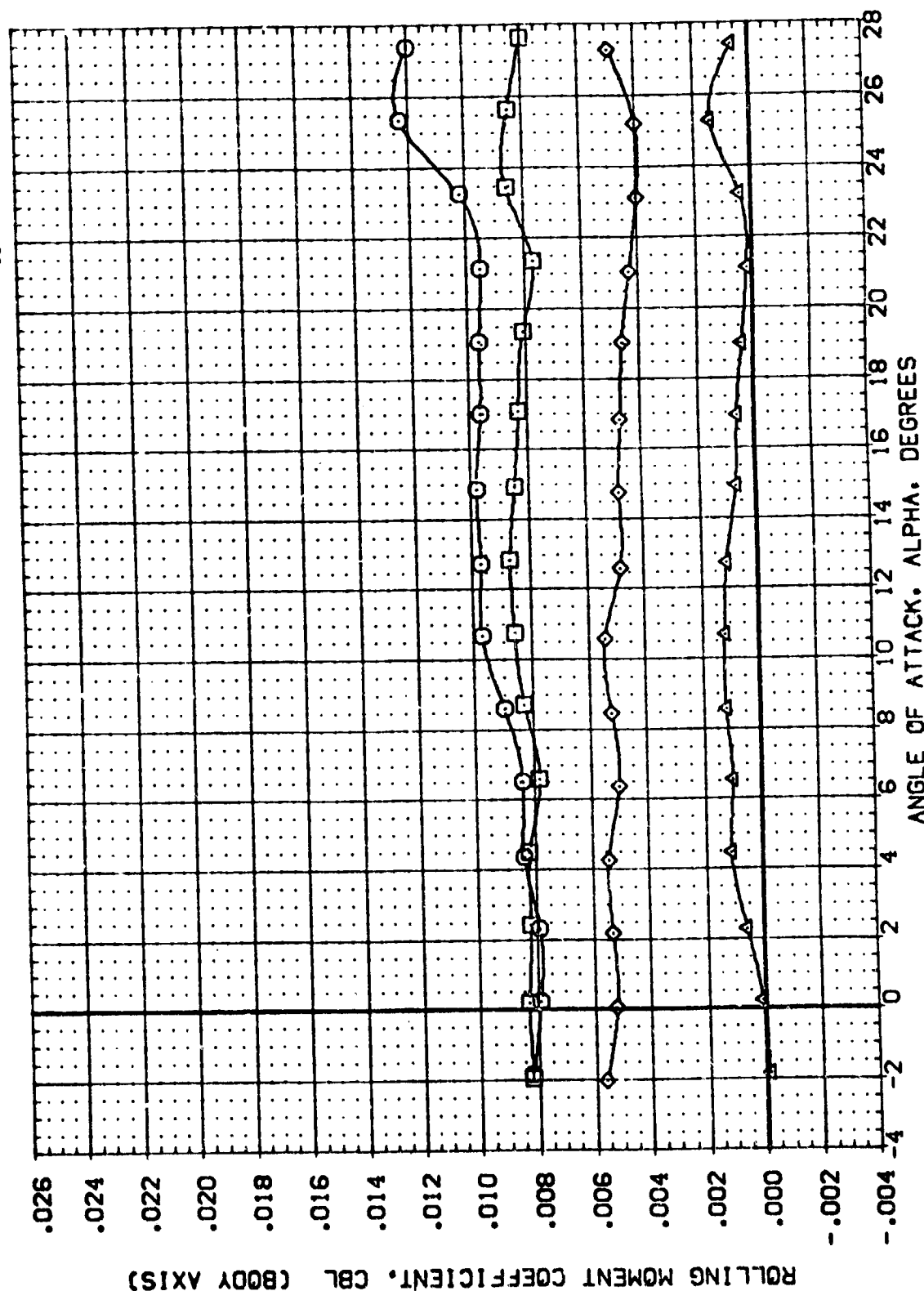


FIG. 19 AILERONS DEFLECTED

(O)MACH = 1.50

DATA SET SYMBOLS: (ABT008), (ABT009), (ABT018), (ABT004)

CONFIGURATION DESCRIPTION: AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS, AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS, AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS, AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

AILERON ELEVON BOOF L/R SPORBRK

5.000 .000 -14.200 54.900
5.000 .000 -14.200 54.900
5.000 .000 -14.200 54.900

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT., LREF 474.8000 IN., BREF 936.6800 IN., XREF 1076.4800 IN., YREF .0000 IN., ZREF 400.0000 IN., SCALE .0150

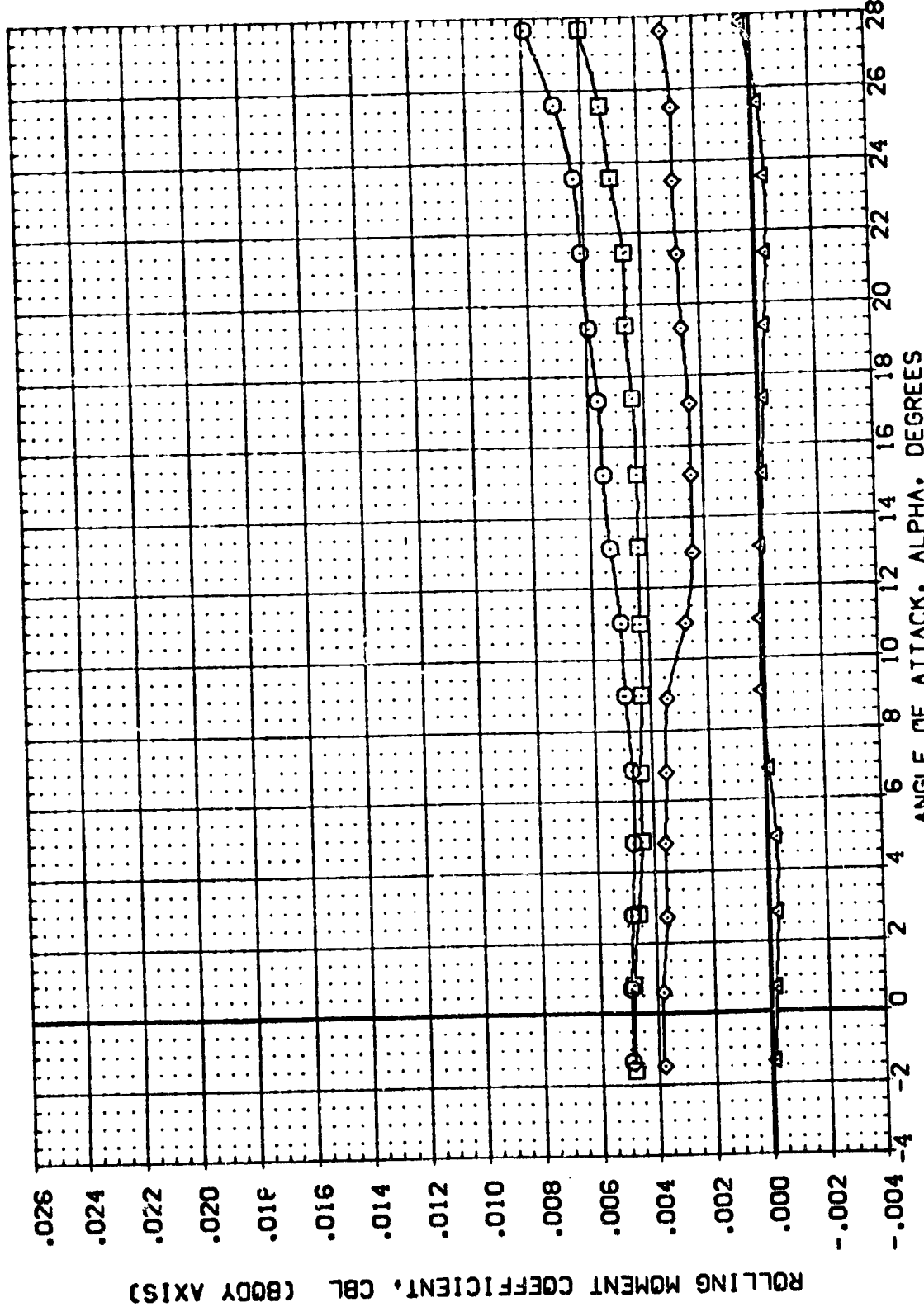


FIG. 19 AILERONS DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOBRK	REFERENCE INFORMATION
(ASTC08)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
(ASTC09)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	LREF 474.8000 IN.
(ASTC18)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

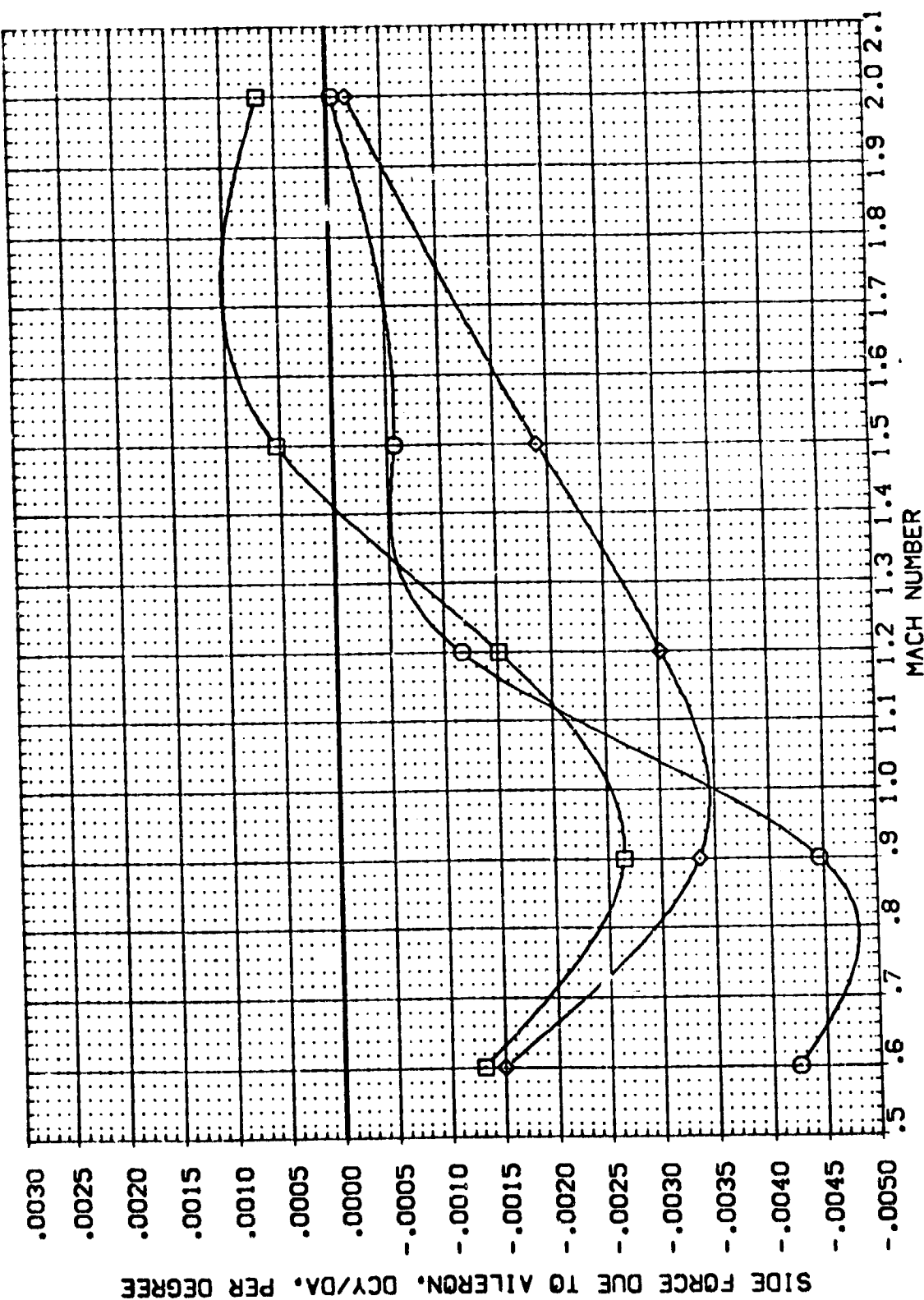


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(A) ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		AILERON		ELEVON		BOOFUP		SPDRBK		REFERENCE INFORMATION	
[AB'COB]	66-706	QA43	B10	CS	D7	M3	F4	V87E18	VS95	5.000	.000	-14.200	54.900
[AB'COB]	66-706	QA43	B10	CS	D7	M3	F4	V87E18	VS95	5.000	.000	-14.200	54.900
[AB'COB]	66-706	QA43	B10	CS	D7	M3	F4	V87E18	VS95	5.000	.000	-14.200	54.900
[AB'COB]	66-706	QA43	B10	CS	D7	M3	F4	V87E18	VS95	5.000	.000	-14.200	54.900
										SREF		2690.0000	50.000
										LREF		474.8000	IN.
										BREF		936.6800	IN.
										XREF		1076.4800	IN.
										YREF		100.0000	IN.
										ZREF		400.0000	IN.
										SCALE		.0150	SCALE

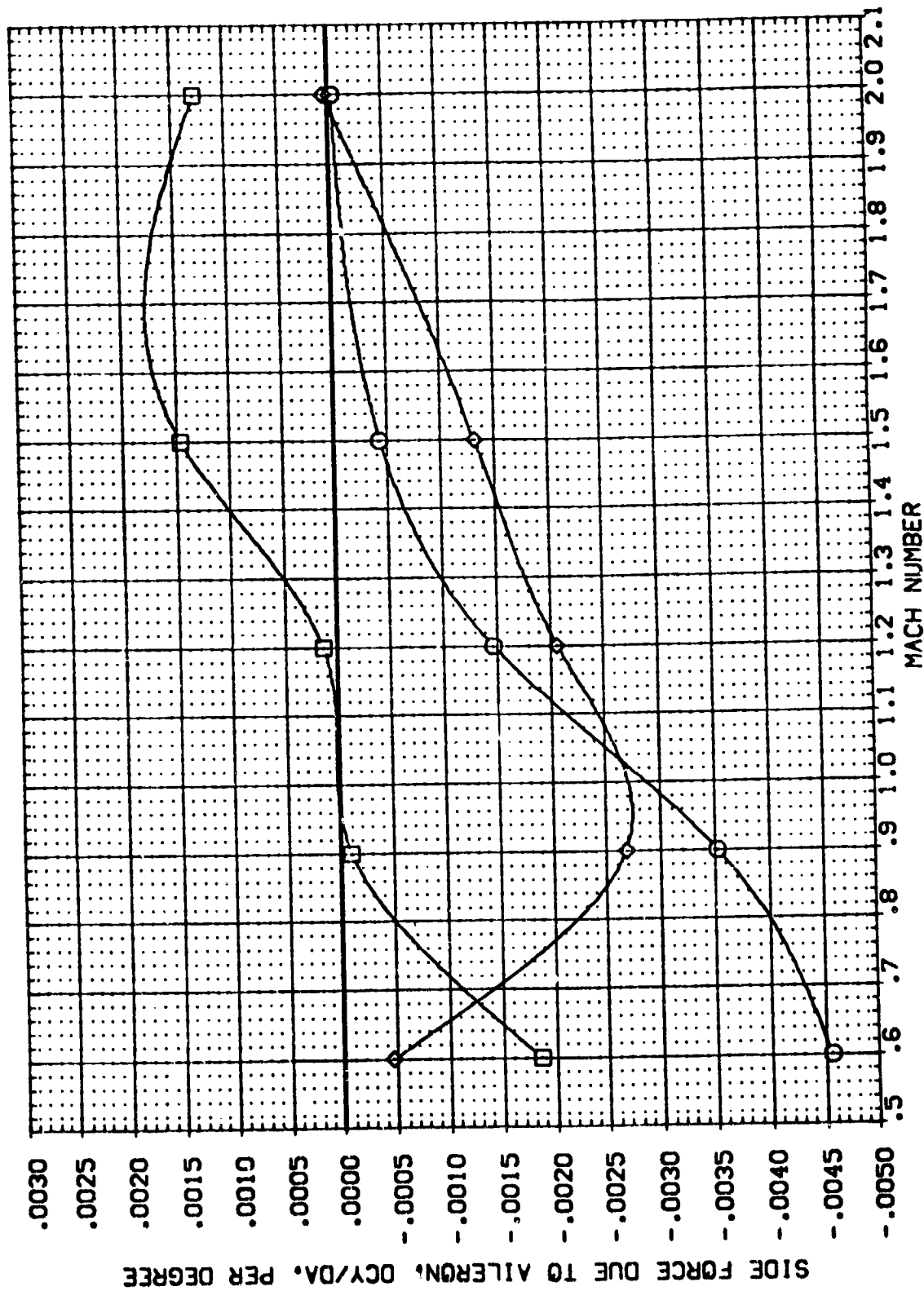


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(B) ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION AILERON ELEVON BODYFLP SPORRK REFERENCE INFORMATION

ABTC08 AYES 66-706 DA13 B10 CS D7 MG F4 V87E18 VSR5 5.000 .000 -14.200 54.900 SREF 2690.0000 SQ.FT.

ABTC09 AYES 66-706 DA13 B10 CS D7 MG F4 V87E18 VSR5 5.000 .000 -14.200 54.900 LREF 474.8000 IN.

ABTC18 AYES 66-706 DA13 B10 CS D7 MG F4 V87E18 VSR5 5.000 .000 -14.200 54.900 BREF 936.6800 IN.

ABTC18 AYES 66-706 DA13 B10 CS D7 MG F4 V87E18 VSR5 5.000 .000 -14.200 54.900 XMRP 1076.4800 IN.

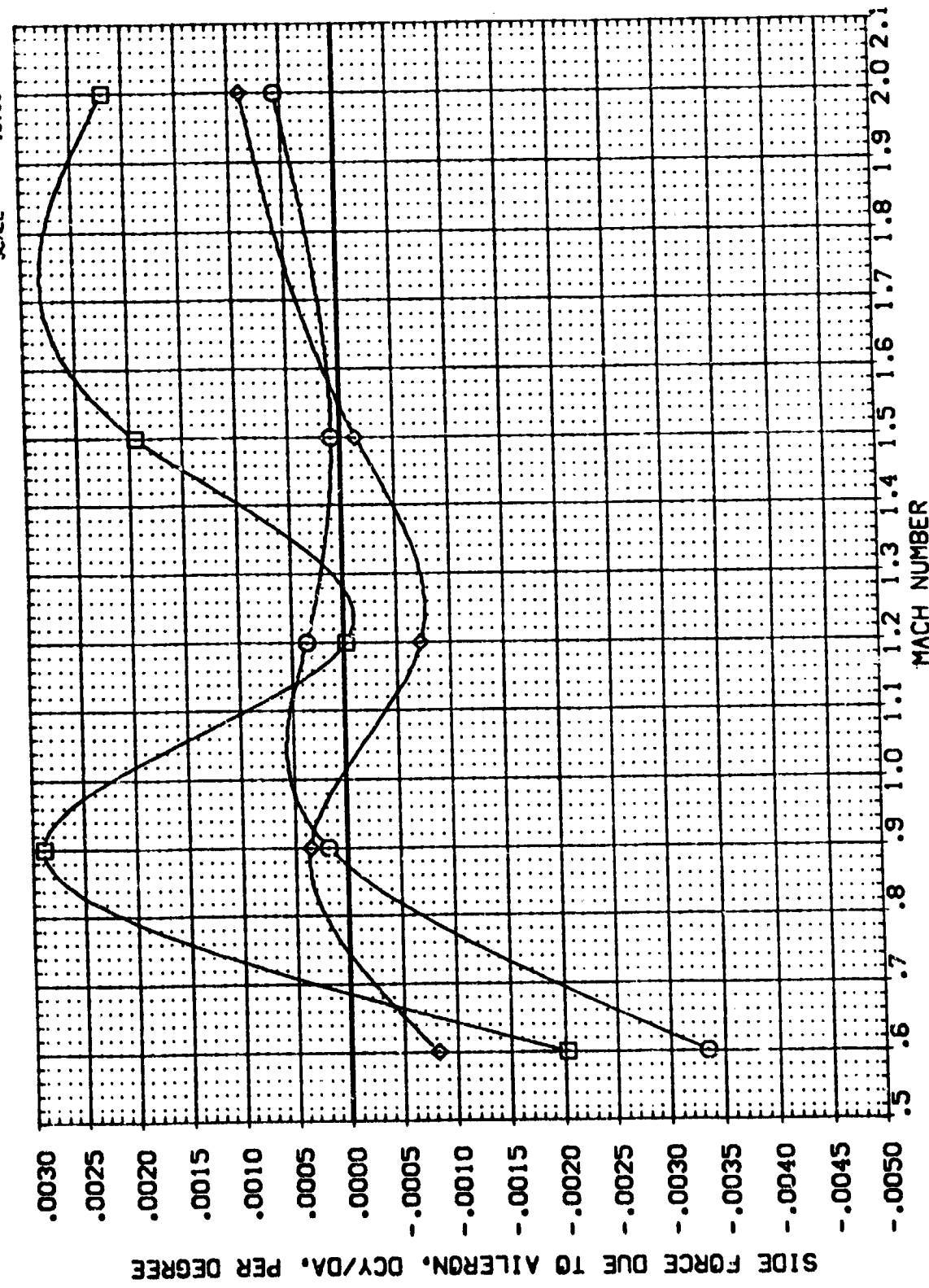


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES
(C) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPDBRK	REFERENCE INFORMATION
(ABTC08)	AVES 66-706 0A13 B10 CS D7 PG F4 V67E18 V5R5	5.000	.000	-14.200	54.500	SREF 2690.0000 SQ.FT.
(ABTC09)	AVES 66-706 0A13 B10 CS D7 PG F4 V67E18 V5R5	5.000	.000	-14.200	54.500	LREF 474.8000 IN.
(ABTC18)	AVES 66-706 0A13 B10 CS D7 PG F4 V67E18 V5R5	5.000	.000	-14.200	54.500	BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150 SCALE

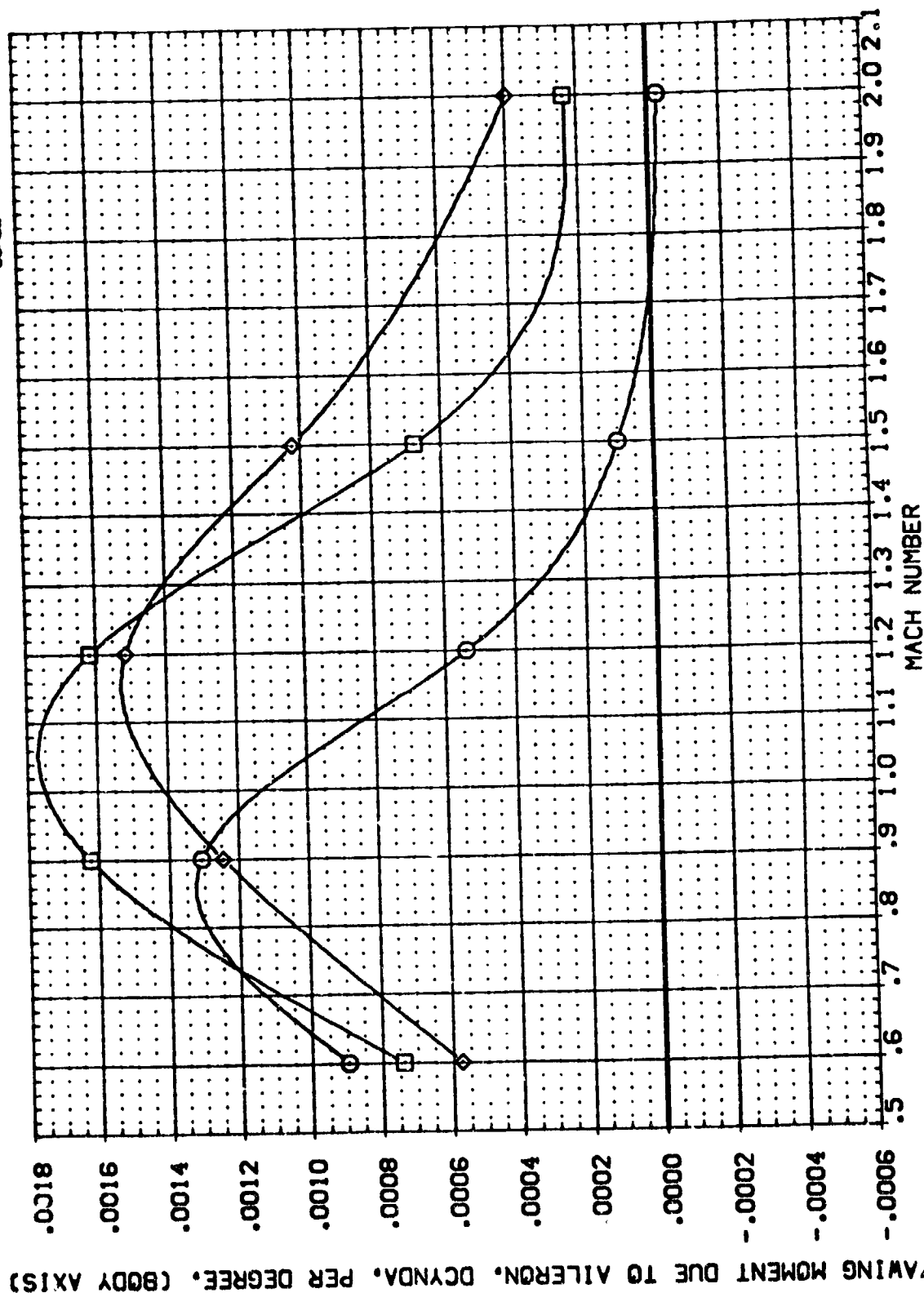


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(α) ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		AILERON		ELEVON		BODY FLIP		SPD BRK		REFERENCE INFORMATION				
[ABTC08]	AMES 66-706	Q43	B10	C5	D7	M3	F4	V87E18	V5K5	5.000	.000	-14.200	54.900	SREF	2690.0000	50. FT.
[ABTC09]	AMES 66-706	Q43	B10	C5	D7	M3	F4	V87E18	V5K5	5.000	.000	-14.200	54.900	LREF	474.8000	IN.
[ABTC18]	AMES 66-706	Q43	B10	C5	D7	M3	F4	V87E18	V5K5	5.000	.000	-14.200	54.900	BREF	936.6800	IN.
														XRRP	1076.1800	IN.
														YRRP	.0000	IN.
														ZRRP	400.0000	IN.
														SCALE	.0150	SCALE

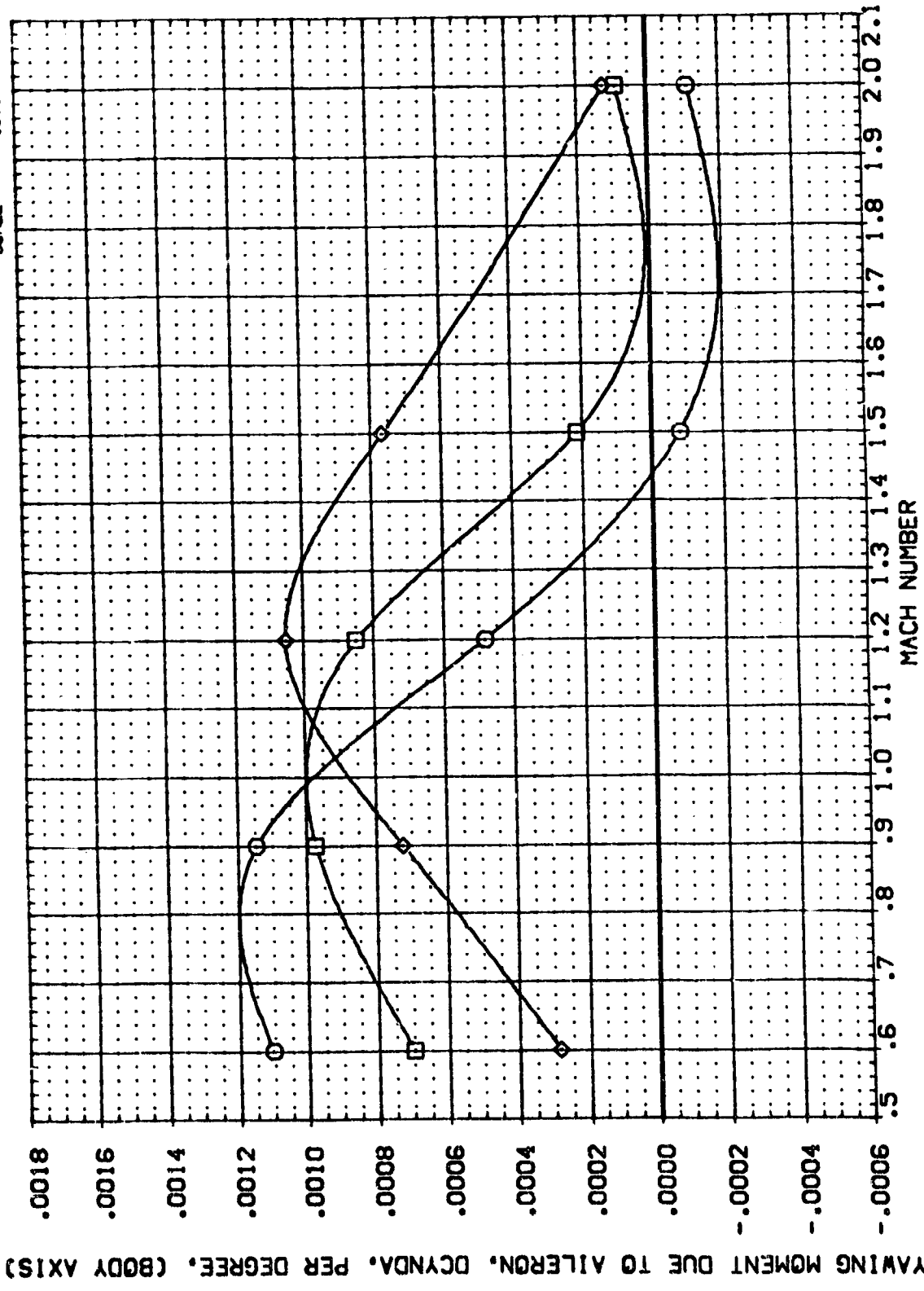


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(B) ALPHA = 10.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPDRBK	REFERENCE INFORMATION
{ABTC08}	AVES 66-706 3M43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
{ABTC09}	AVES 66-706 3M43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.900	LREF 474.8000 IN.
{ABTC18}	AVES 66-706 3M43 B10 CS D7 M3 F4 V87E18 V5K5	5.000	.000	-14.200	54.900	BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150 SCALE

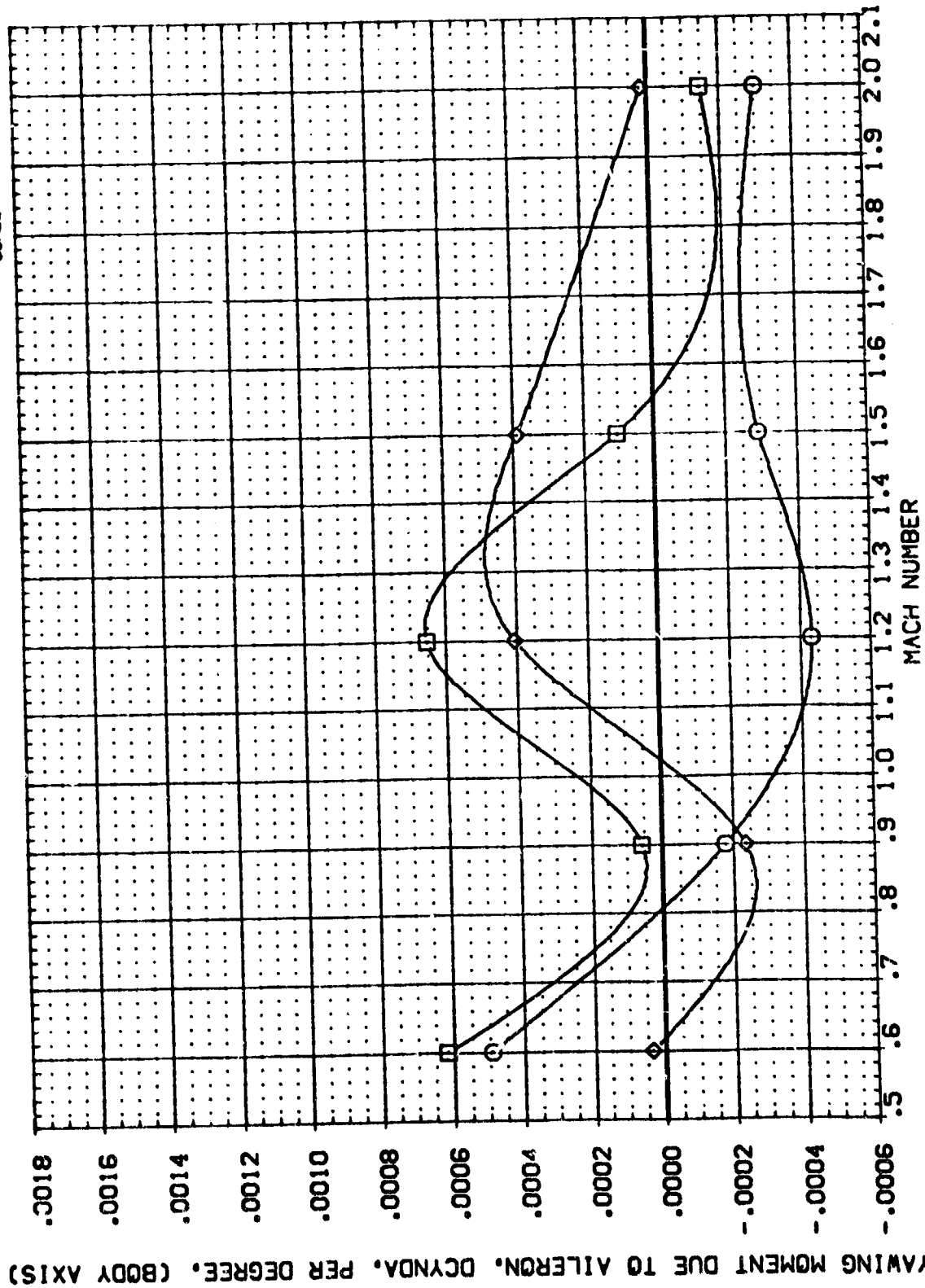


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(CJ) ALPHA = 20.00

ROLLING MOMENT DUE TO AILERON, DCBLDA, PER DEGREE, (BODY AXIS)

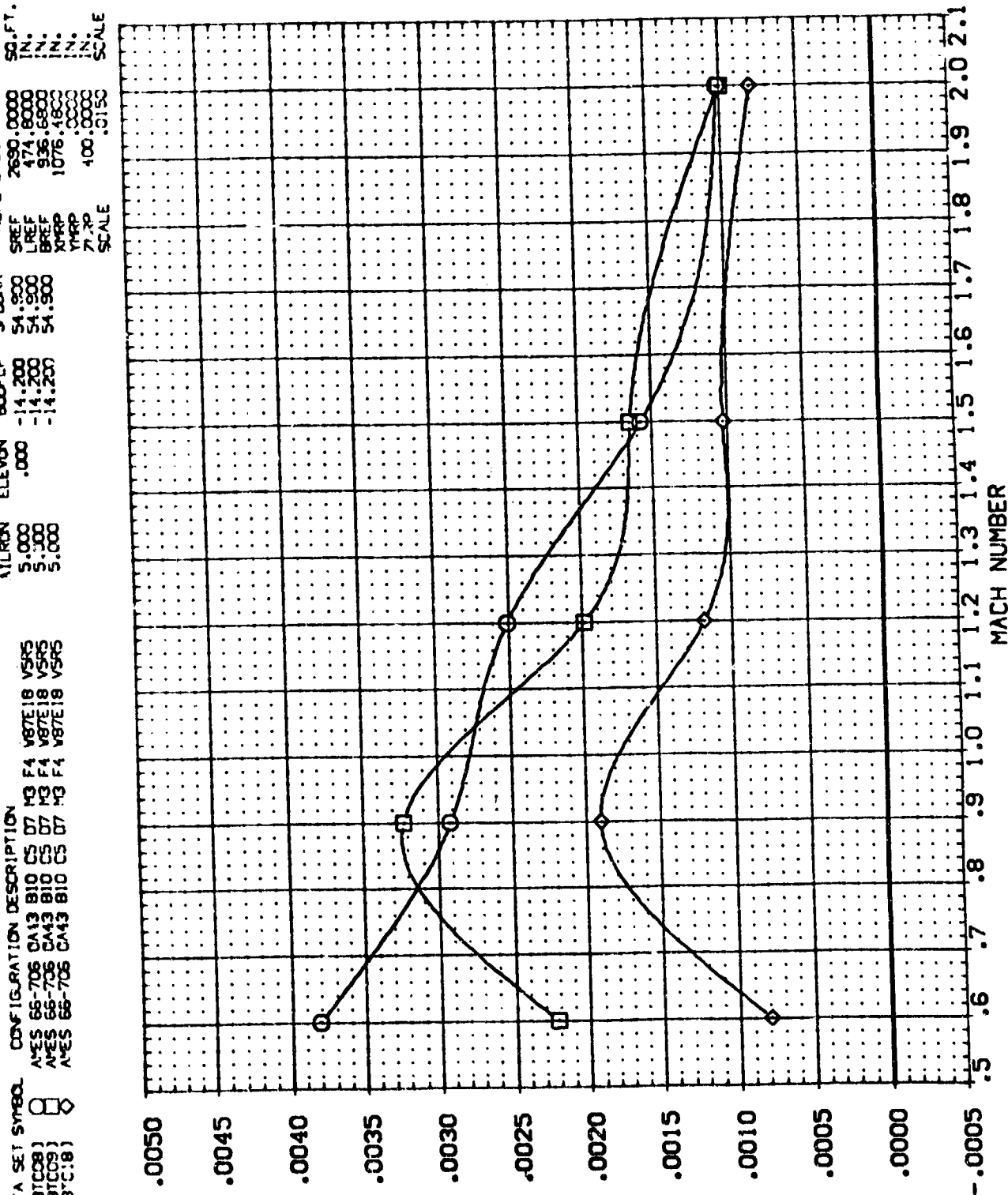


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(α) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOBRK	REFERENCE INFORMATION	
(ABTC08)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.900	SREF	2690.0000 SQ.FT.
(ABTC05)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.900	LREF	474.8000 IN.
(AS C:18)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS	5.000	.000	-14.200	54.900	BREF	936.6800 IN.
						XPRP	1076.4800 IN.
						YPRP	400.0000 IN.
						ZPRP	400.0000 IN.
						SCALE	.0150

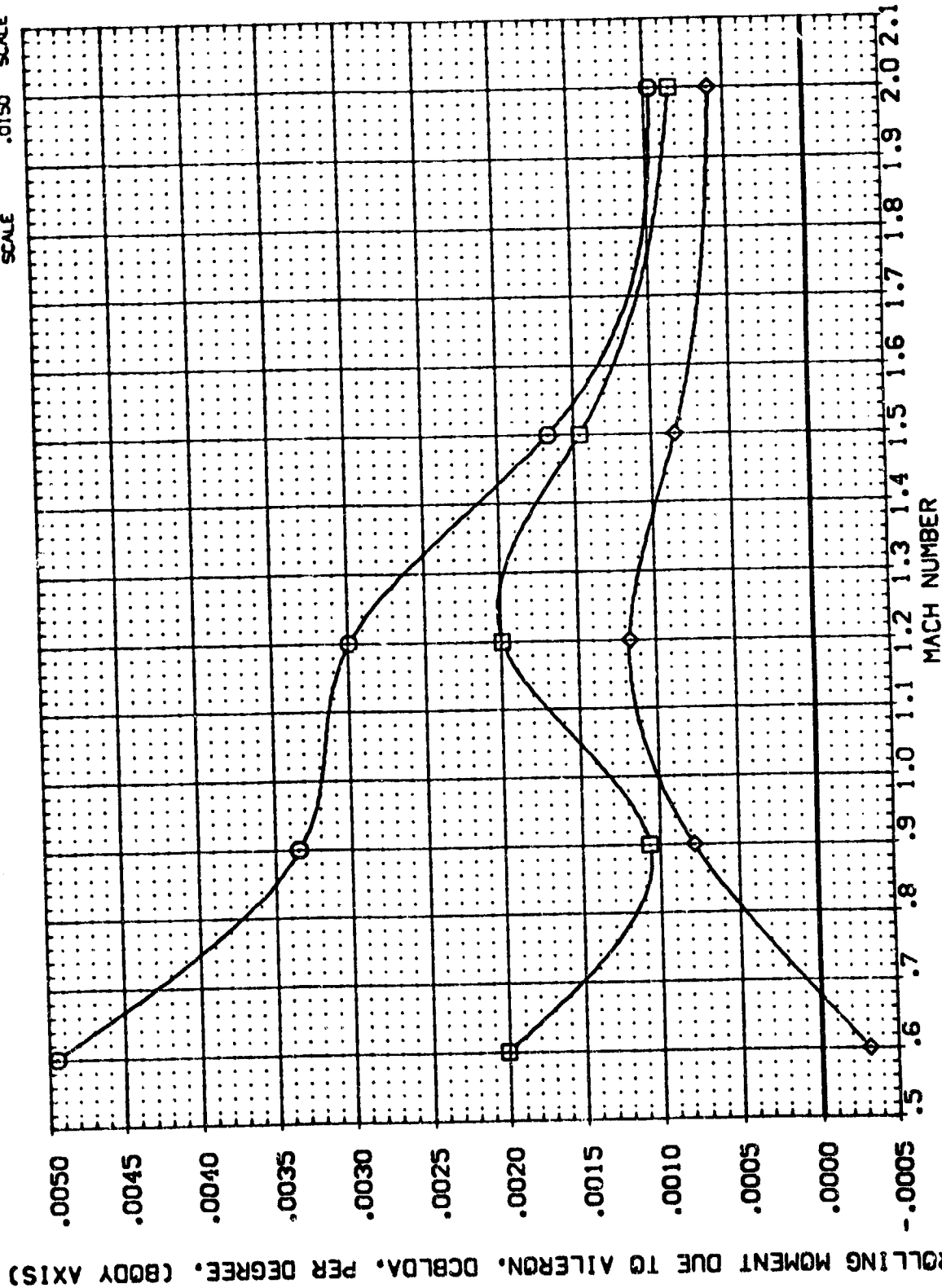


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(B) ALPHA = 10.00

DATA SET SYMOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOF LP	SPDRK	REFERENCE INFORMATION
(ASTC08)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	SREF 2673.0000 SQ.FT.
(ASTC09)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	LREF 474.8000 IN.
(ASTC10)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	BREF 936.6800 IN.
(ASTC11)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	XREF 1076.4800 IN.
(ASTC12)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	YREF 1076.4800 IN.
(ASTC13)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	ZREF 1076.4800 IN.
(ASTC14)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	SCALE 400.0000 IN.
(ASTC15)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V59S	5.000	.000	-14.200	54.900	SCALE .0150 IN.

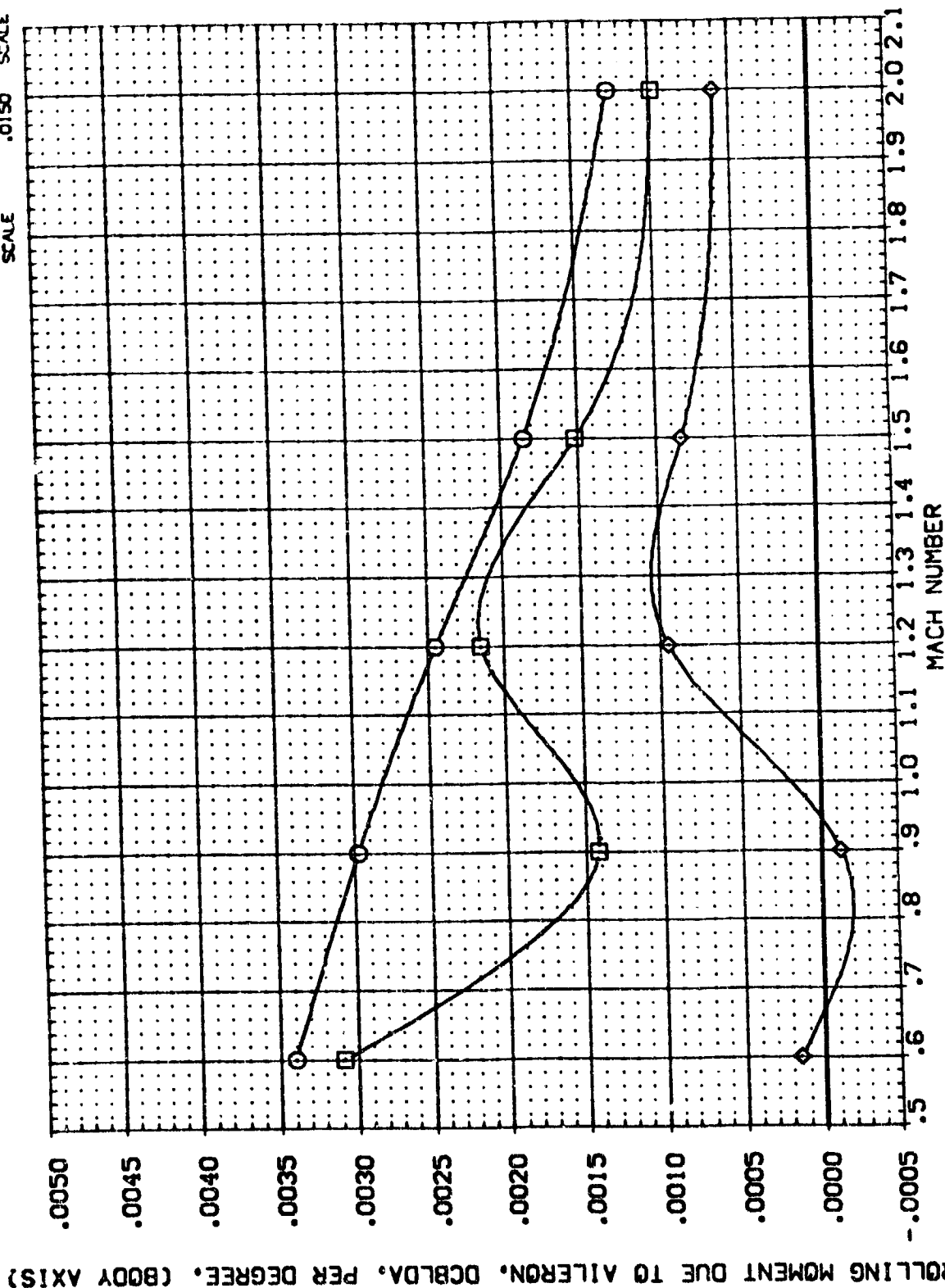


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(C) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOOFLP	SPOSRK	REFERENCE INFORMATION
(ABTC08)	AMES 66-706 CM43 B10 CS D7 M3 F4 V67E18 V5K5	5.000	.000	-14.200	54.900	SREF 2690.0000 SQ.FT.
(ABTC09)	AMES 66-706 CM43 B10 CS D7 M3 F4 V67E18 V5K5	5.000	.000	-14.200	54.900	LREF 474.8000 IN.
(ABTC18)	AMES 66-706 CM43 B10 CS D7 M3 F4 V67E18 V5K5	5.000	.000	-14.200	54.900	BREF 936.8800 IN.
						YPRP 1076.4800 IN.
						ZPRP .0000 IN.
						SCALE .0150

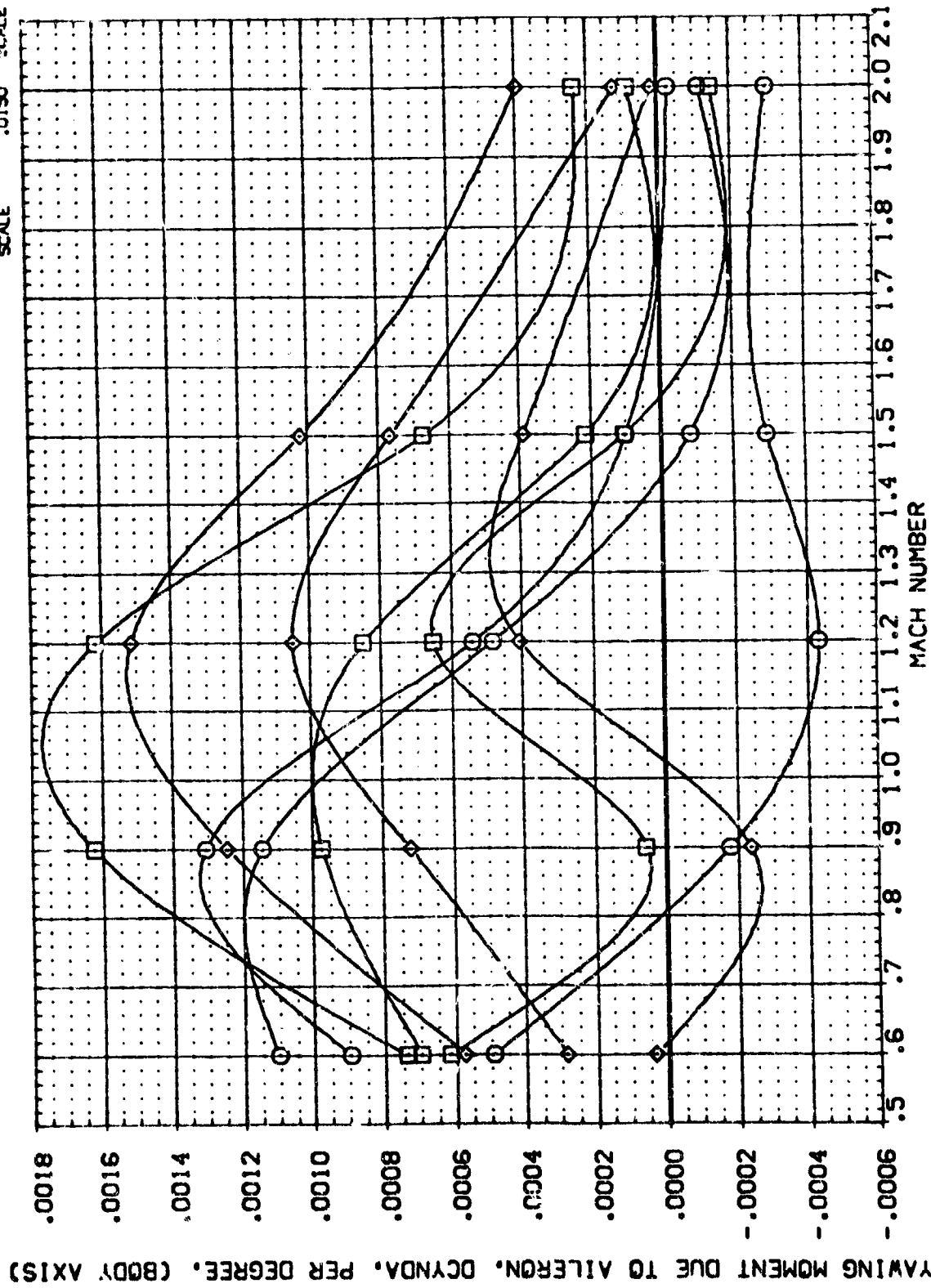


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(A) ALPHA = .00 (B) 10.00 (C) 20.00

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XREF 1076.4800 IN.
 YREF 0.0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150

AILERON ELEVON BOOFLP SPDRBK
 5.000 .000 -14.200 54.900
 5.000 .000 -14.200 54.900

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (ABTC08) AVE5 66-706 0A13 B10 CS D7 H3 F4 V87E18 V59S
 (ABTC09) AVE5 66-706 0A13 B10 CS D7 H3 F4 V87E18 V59S
 (ABTC10) AVE5 66-706 0A13 B10 CS D7 H3 F4 V87E18 V59S

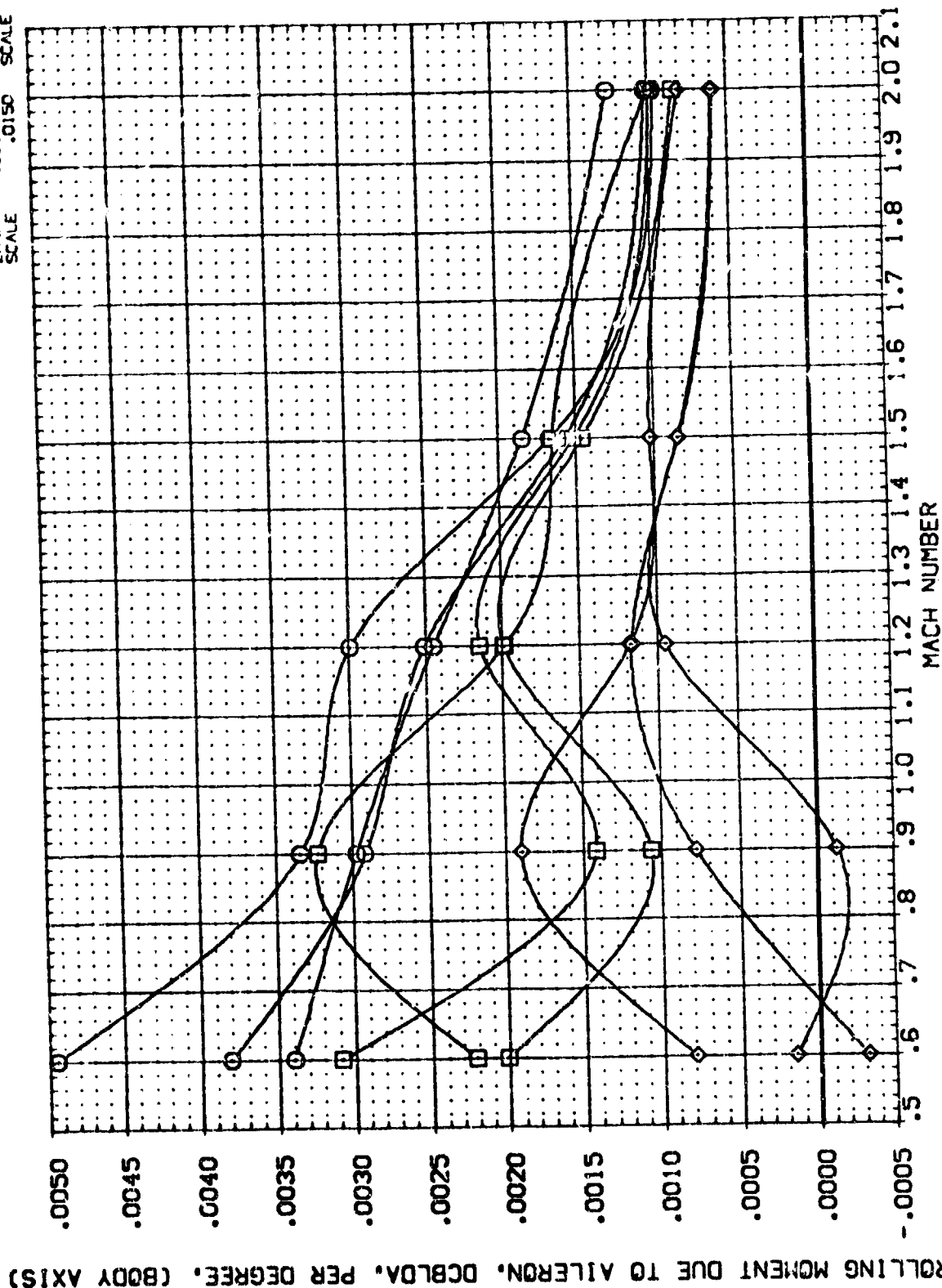


FIG. 20 AILERON EFFECTIVENESS DERIVATIVES

(A) ALPHA = .00 (B) 10.00 (C) 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ROD L/P	ELEVON	SPOURK	RUDDER	REFERENCE INFORMATION
(A) 004	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E16 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(A) 014	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
(A) 017	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

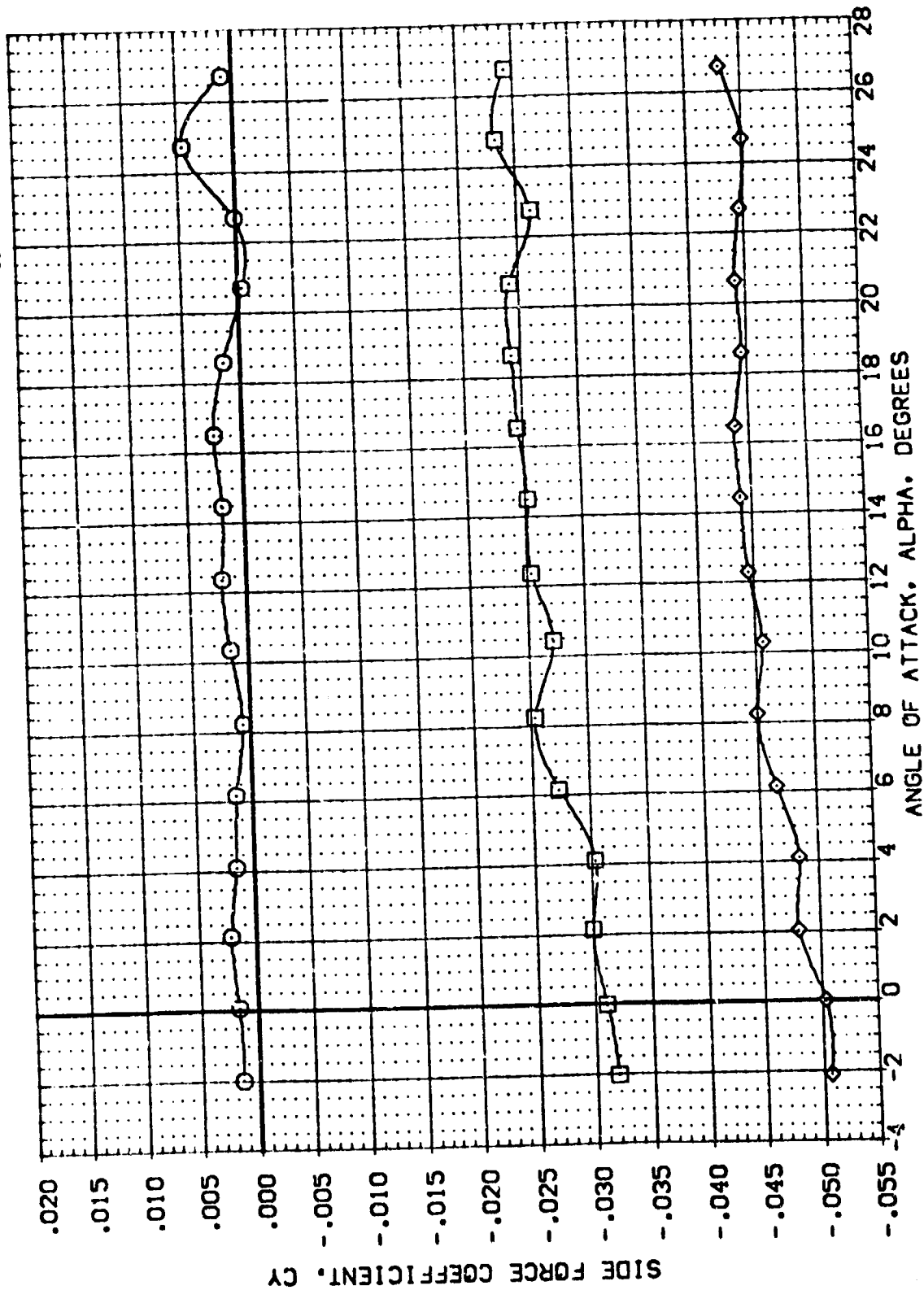


FIG. 21 RUDDER DEFLECTED

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBAK	RUDDER	REFERENCE INFORMATION
(ABT004)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000
(ABT014)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000
(ABT017)	AMES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.6800
						XREF 1076.4800
						YREF .0000
						ZREF 400.0000
						SCALE .0150

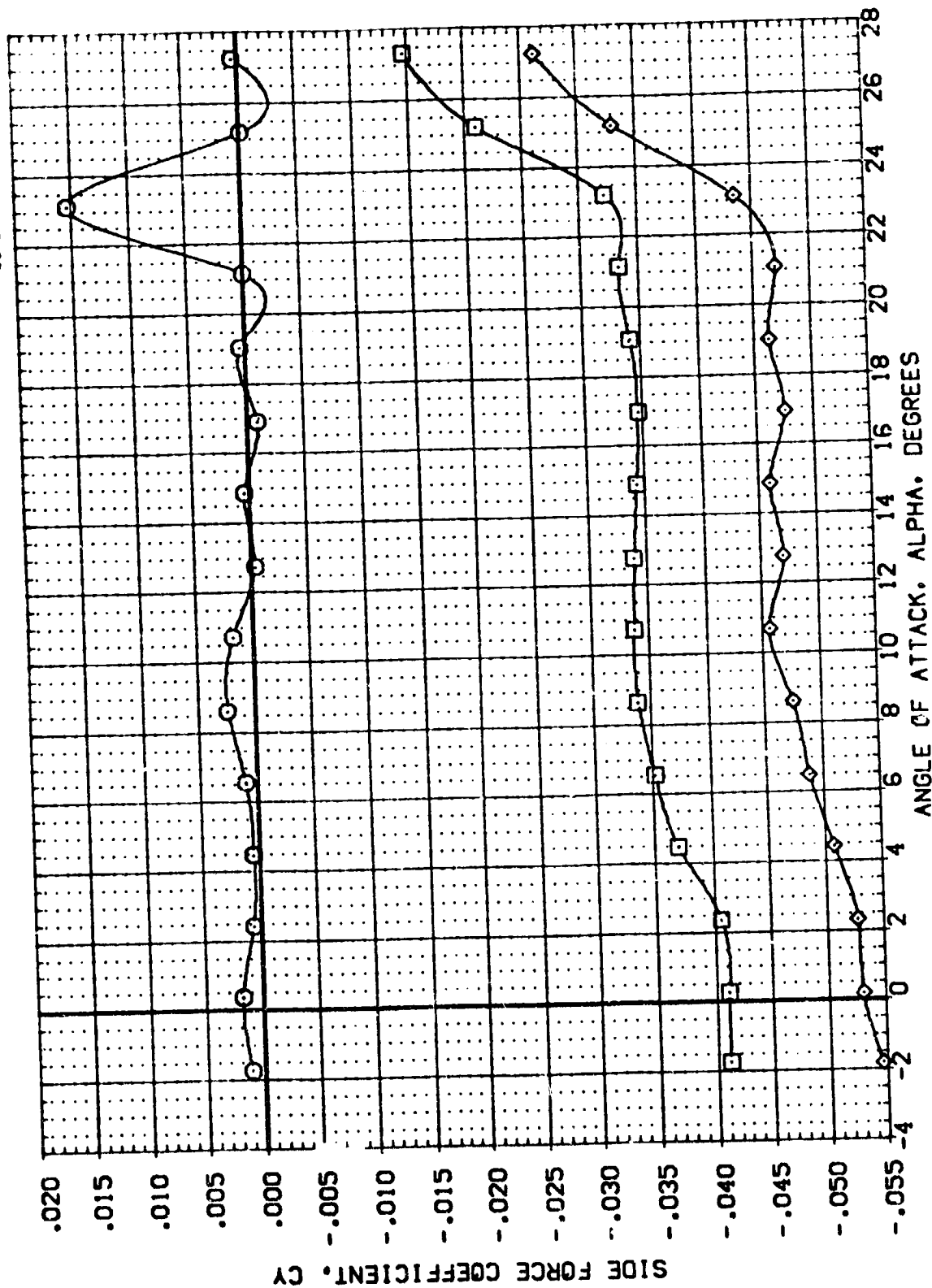
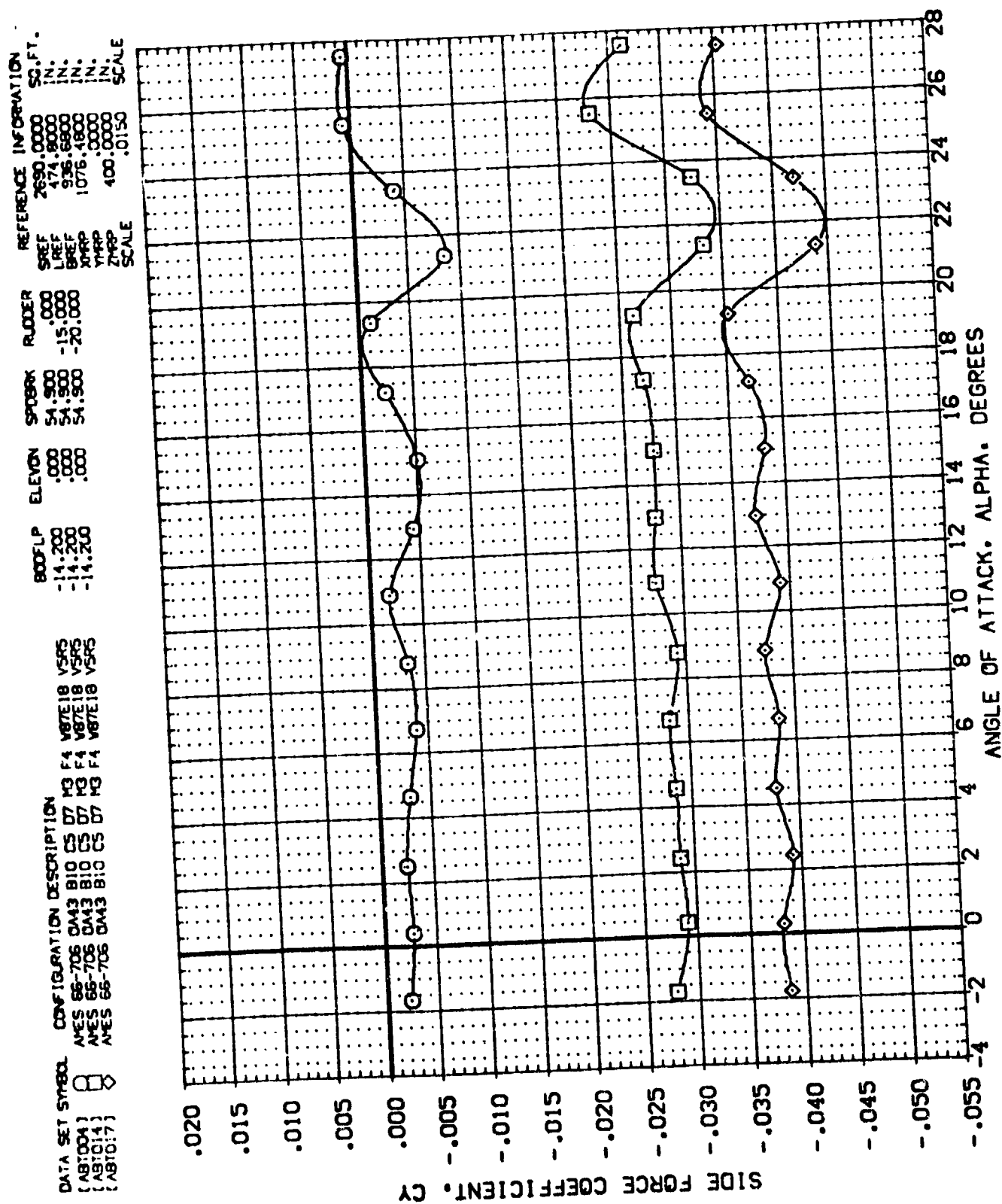


FIG. 21 RUDDER DEFLECTED

(B)MACH = .91



(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRX	RUDDER	REFERENCE INFORMATION
[AB1004]	A/C 66-705 DA43 B10 CS 07 H3 F4 V87E18 V5R5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[AB1014]	A/C 66-705 DA43 B10 CS 07 H3 F4 V87E18 V5R5	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
[AB1017]	A/C 66-705 DA43 B10 CS 07 H3 F4 V87E18 V5R5	-14.200	.000	54.900	-20.000	BREF 536.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

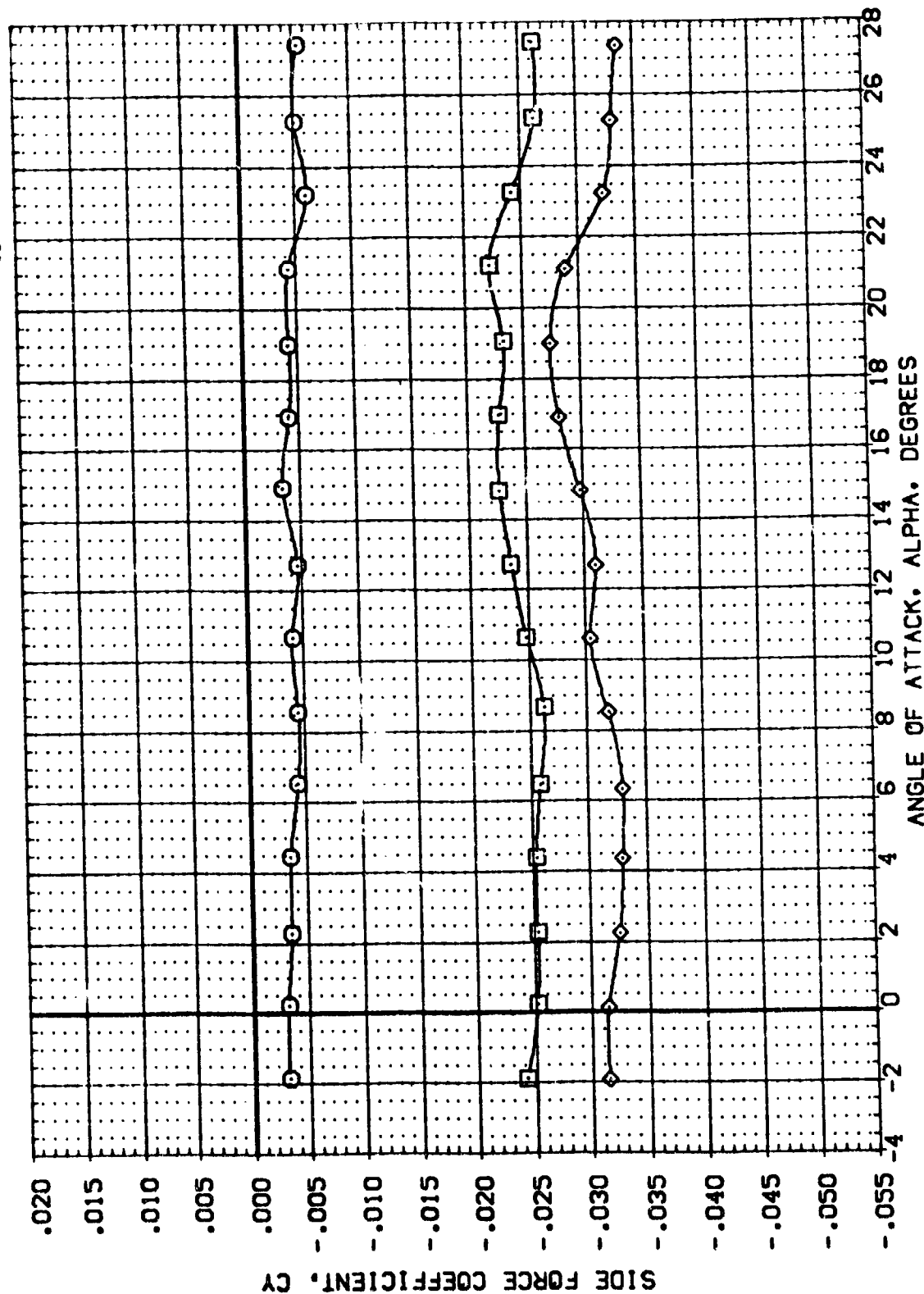


FIG. 21 RUDDER DEFLECTED

(O)MACH = 1.50

DATA SET SYMB.	CONFIGURATION DESCRIPTION	BODTLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION	50.FT.
(ABT004)	AVES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000	N.
(ABT014)	AVES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VSRS	-13.200	.000	54.900	-15.000	LREF 474.6000	N.
(ABT017)	AVES 66-706 0A13 B10 C5 D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.6800	N.
						XMRP 1076.4800	N.
						YMRP .0000	N.
						ZMRP .0000	N.
						SCALE .0150	SCALE

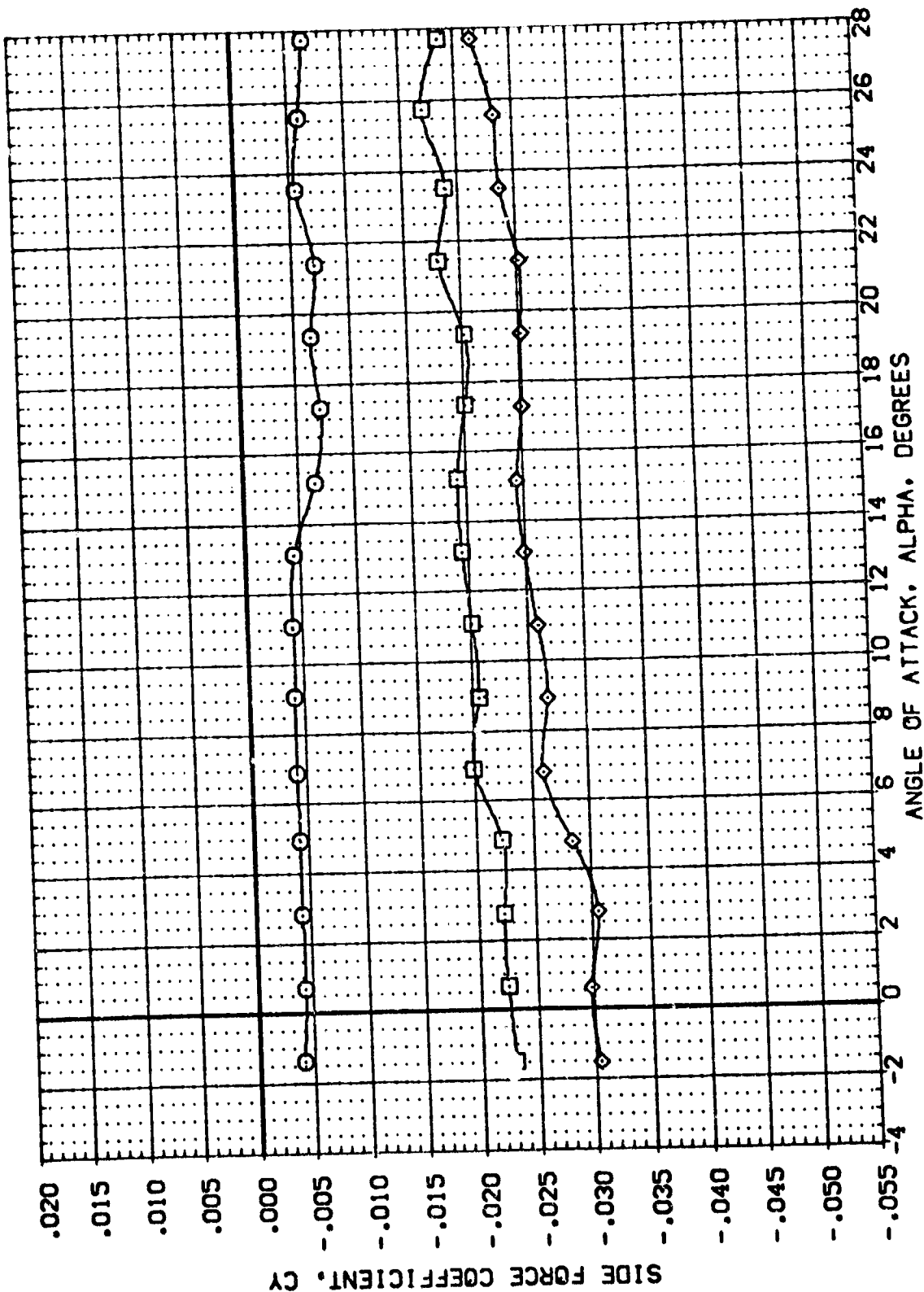


FIG. 21 RUDDER DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODTLP	ELEVON	SPODRK	RUDDER	REFERENCE INFORMATION
(A8T004)	AKES 66-706 OA43 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(A8T014)	AKES 66-706 OA43 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
(A8T017)	AKES 66-706 OA43 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.6800 IN.
						YMRP 1076.4800 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

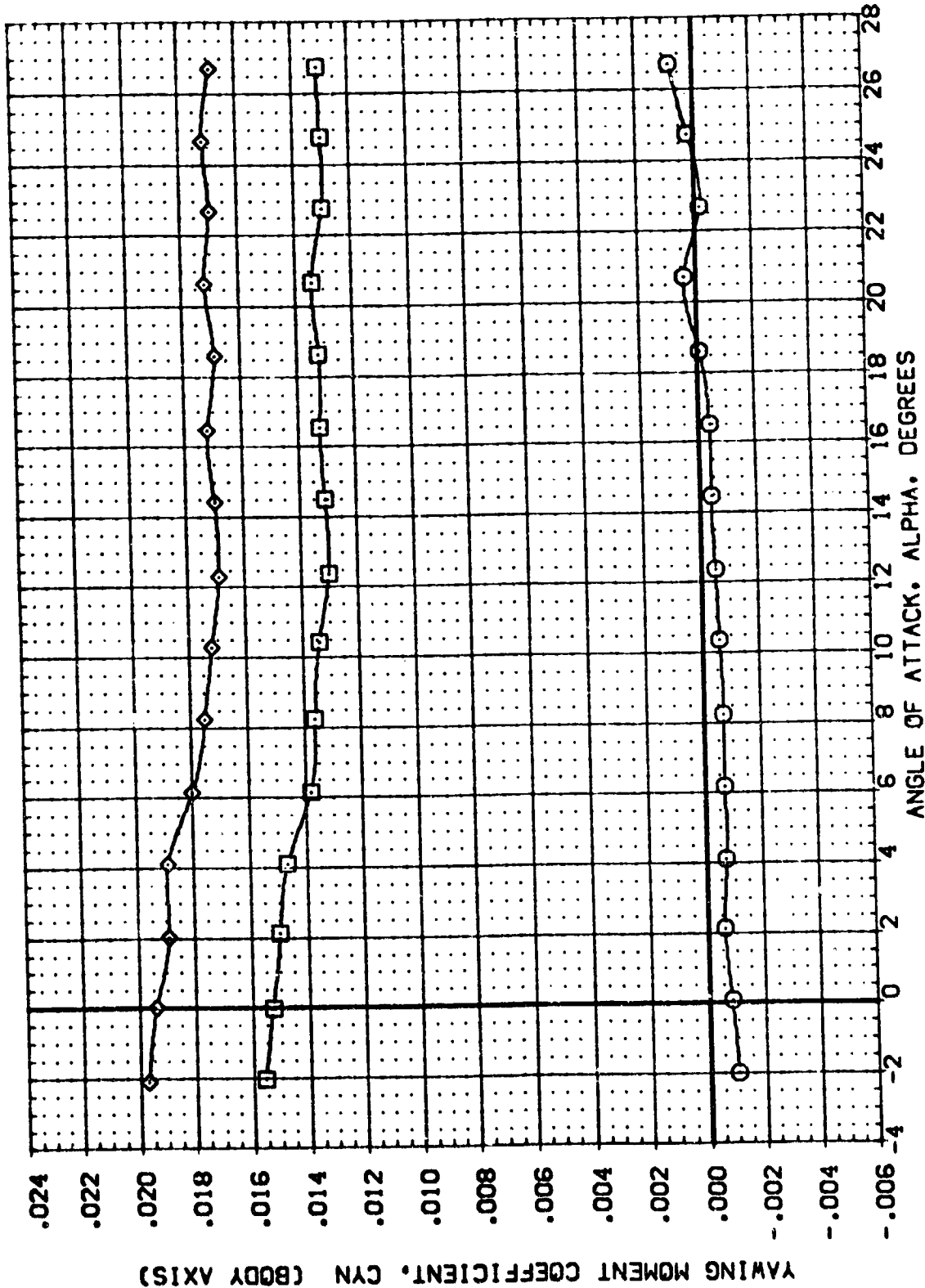


FIG. 21 RUDDER DEFLECTED

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION
(ABT004)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	SREF 2630.0000 SQ.FT. IN.
(ABT014)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-15.000	LREF 474.8000 IN.
(ABT017)	AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-20.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

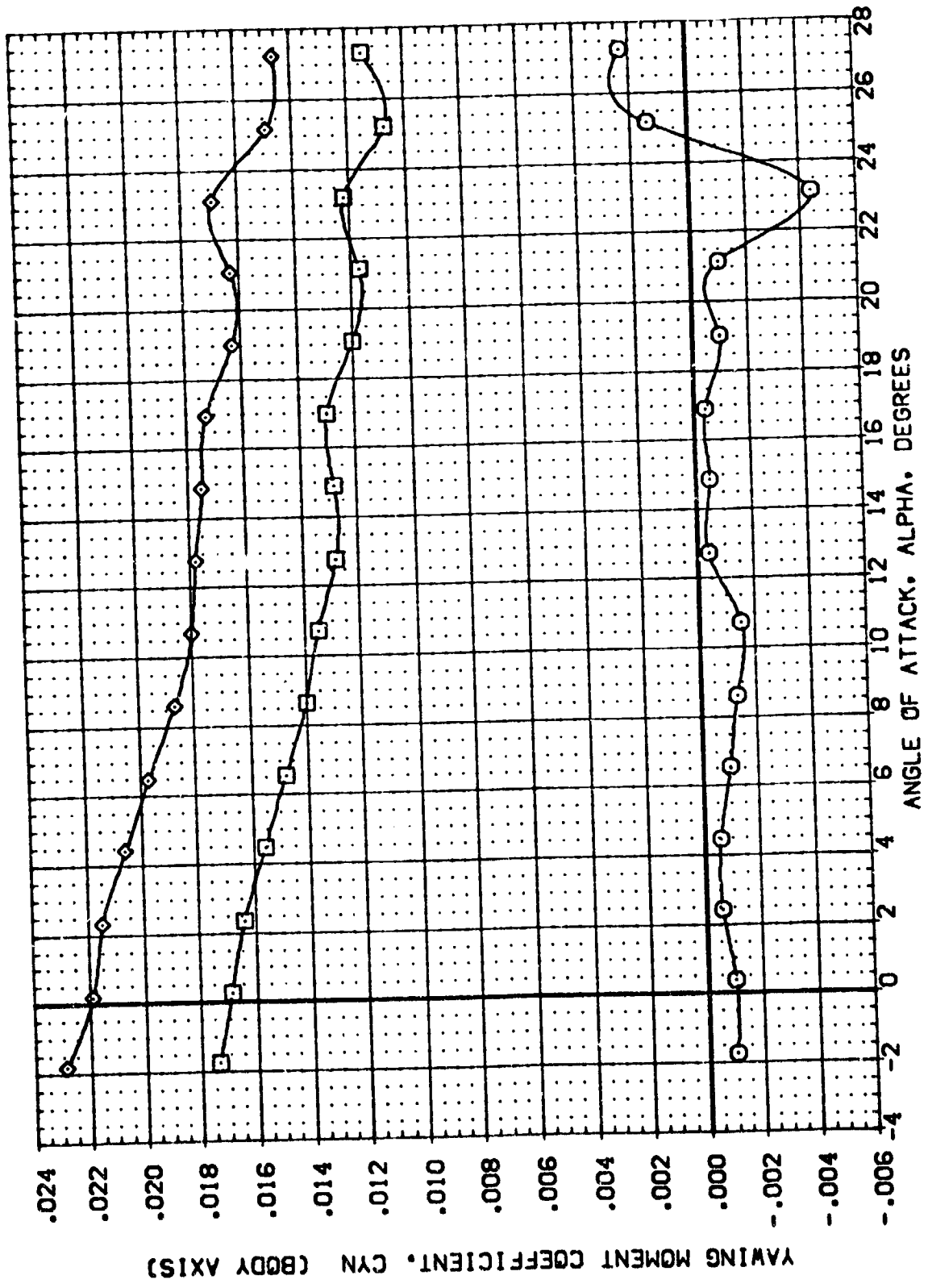


FIG. 21 RUDDER DEFLECTED

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[ABT004]	AMES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[ABT014]	AMES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
[ABT017]	AMES 66-706 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.6800 IN.
						XTRP 1076.4800 IN.
						YTRP .0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

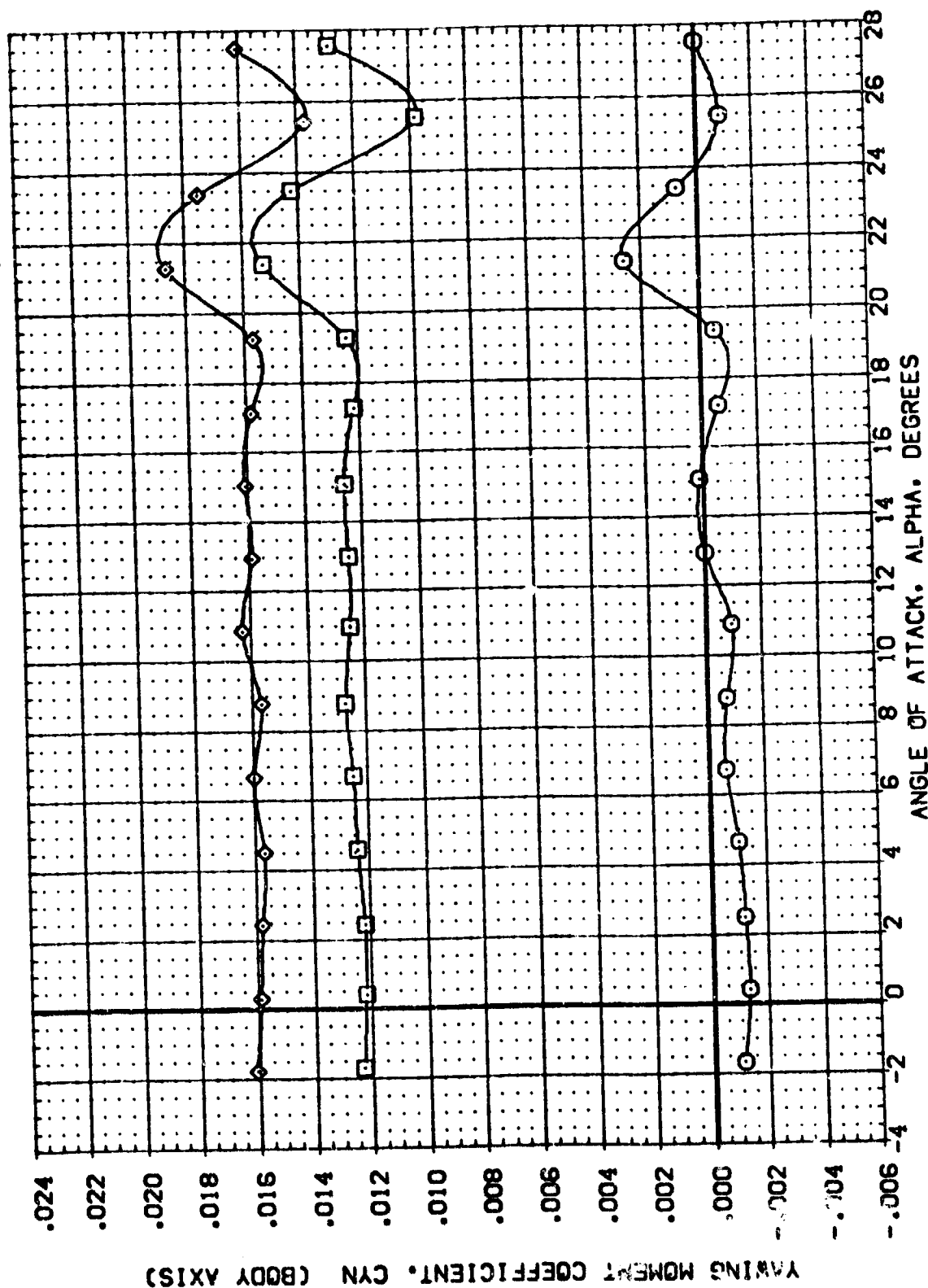


FIG. 21 RUDDER DEFLECTED

(C)MACH = 1.20



DATA SET SYMBOL	CONF:IGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[AS:004]	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSX5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[AS:014]	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSX5	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
[AS:017]	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSX5	-14.200	.000	54.900	-20.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 0.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

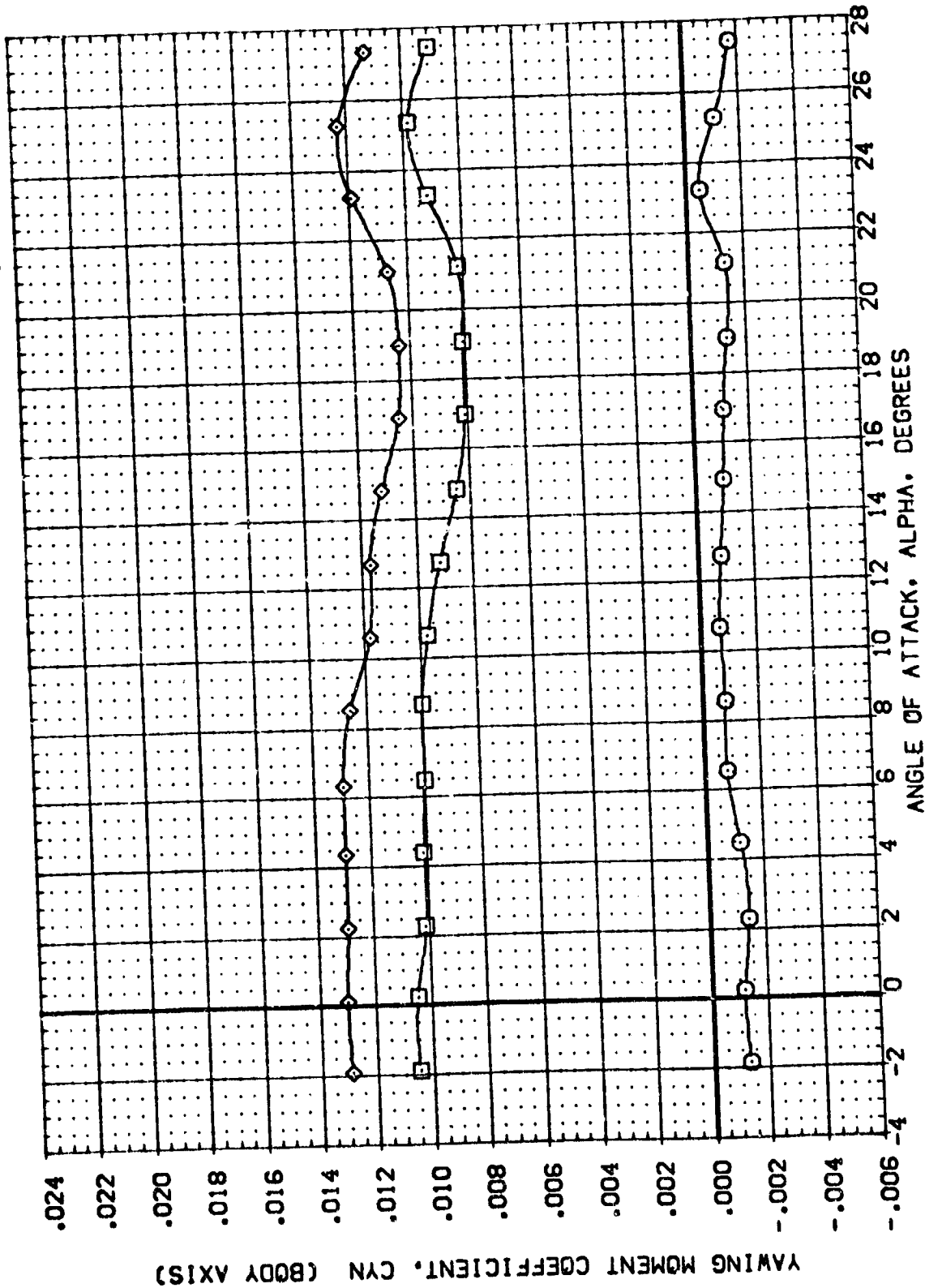


FIG. 21 RUDDER DEFLECTED

(D)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
[A8T004]	AMES 66-706 DA43 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SC.FT.
[A8T014]	AMES 66-706 DA43 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
[A8T017]	AMES 66-706 DA43 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	BREF 936.5800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

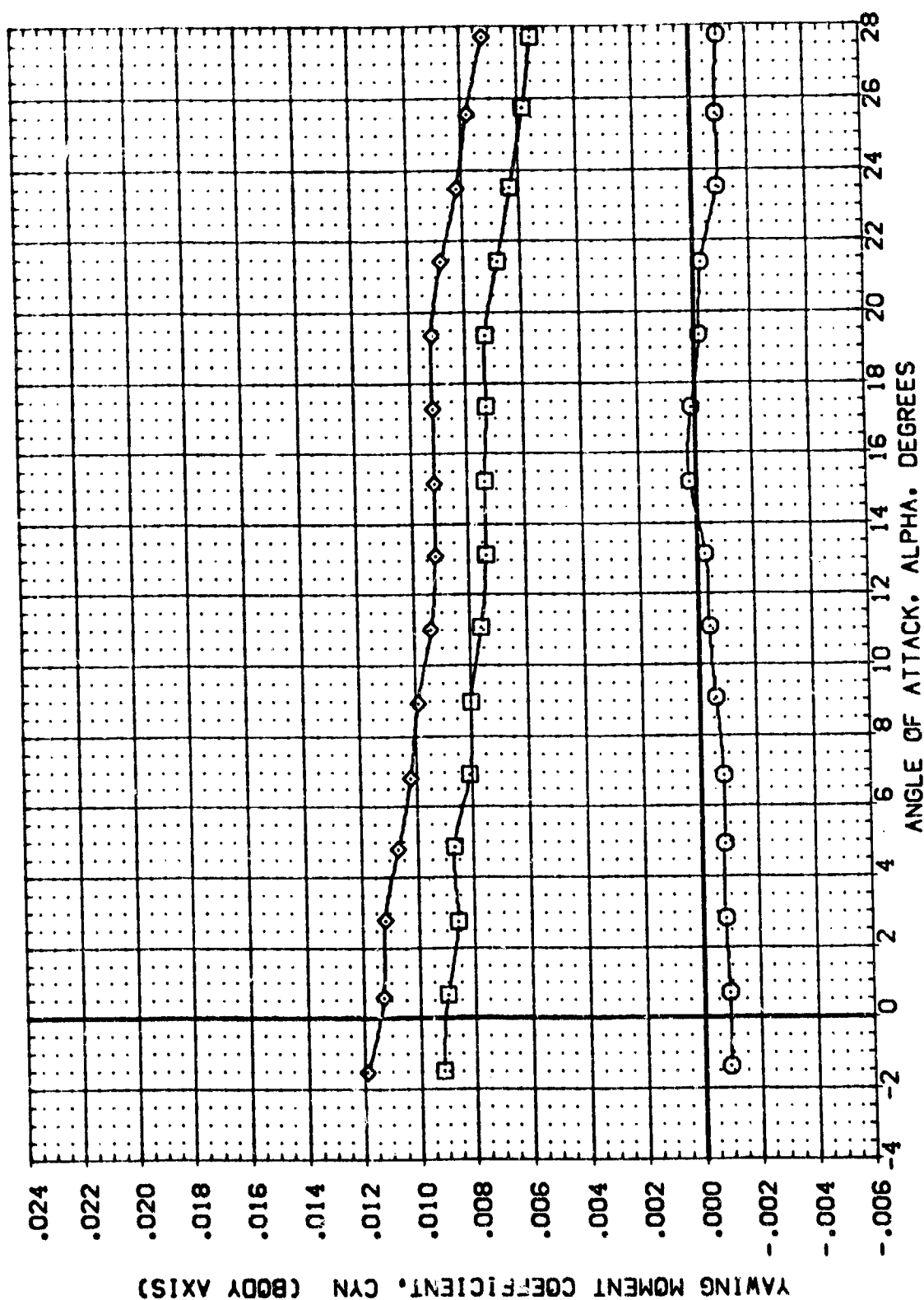


FIG. 21 RUDDER DEFLECTED

(E)MACH = 2.00



DATA SET SYMBOL: (ABT004) (ABT014) (ABT017)

CONFIGURATION DESCRIPTION: AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSR5 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSR5 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSR5

BOOF LP ELEVON SPDBRK RUDDER

REFERENCE INFORMATION: SREF 2630.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150

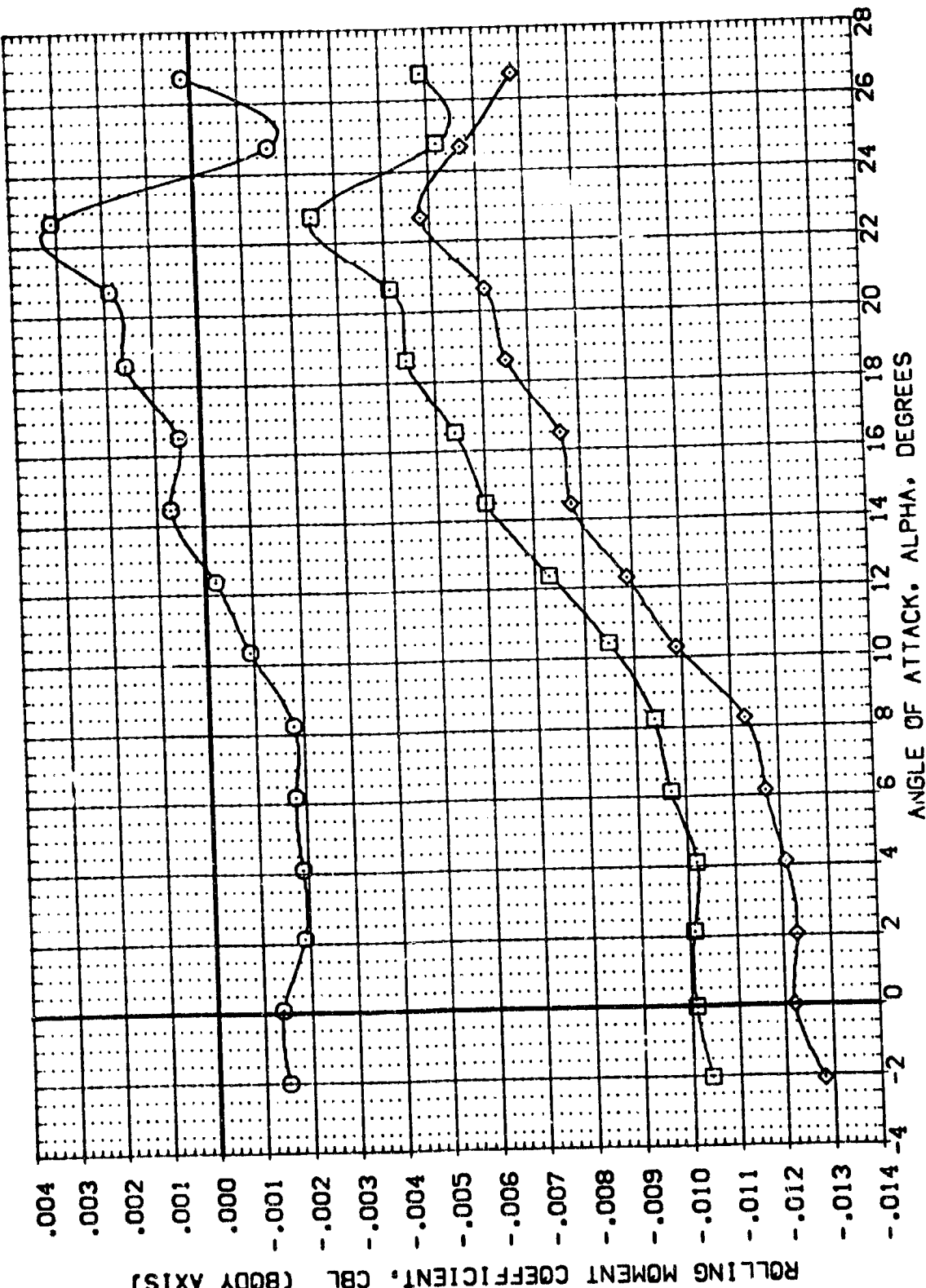


FIG. 21 RUDDER DEFLECTED

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
{ ABST004 }	AMES 66-706	0443 B10 C5 D7 M3 F4
{ ABST044 }	AMES 66-706	0443 B10 C5 D7 M3 F4
{ ABST074 }	AMES 66-706	0443 B10 C5 D7 M3 F4

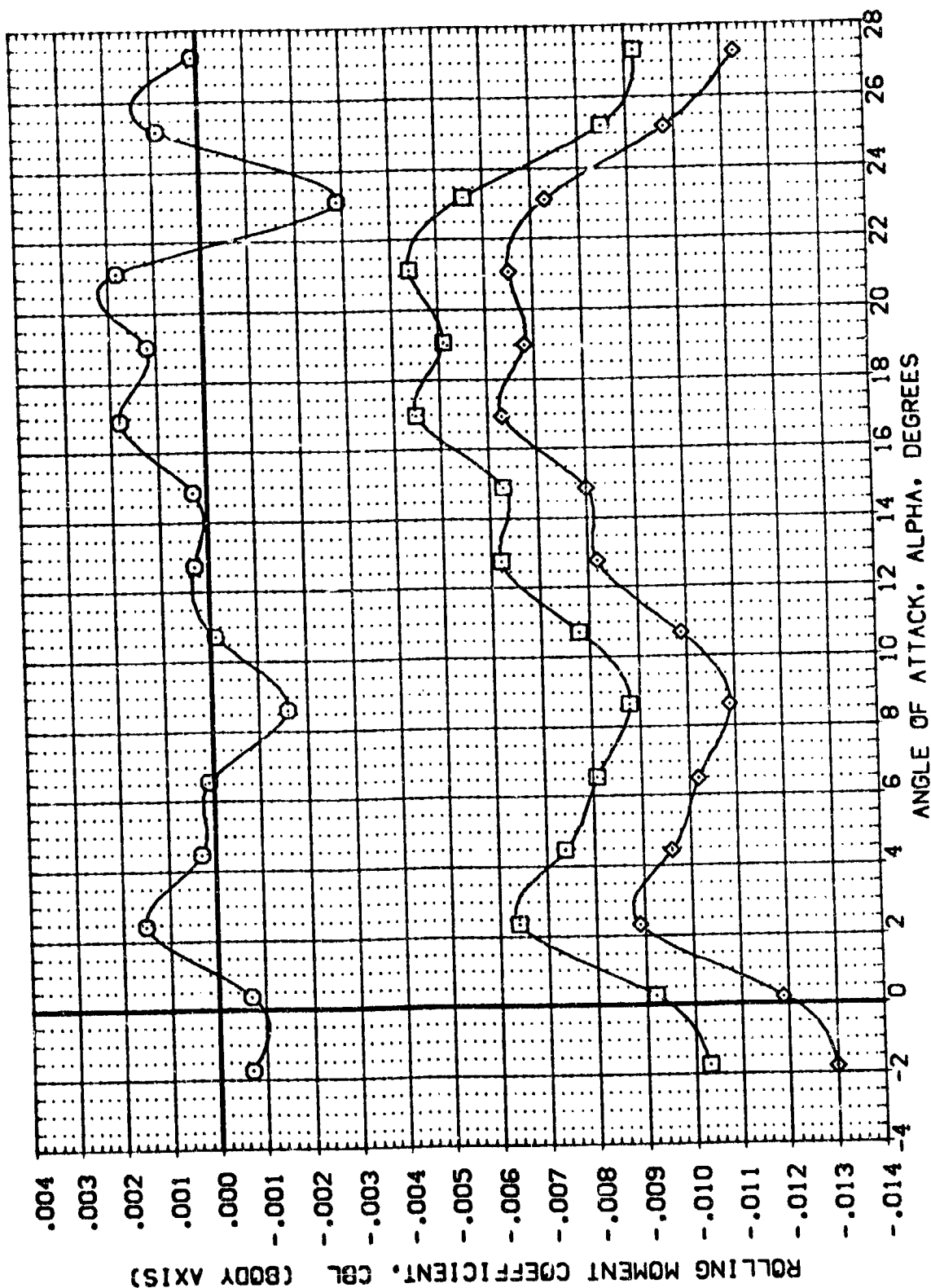


FIG. 21 RUDDER DEFLECTED

```
[B]MACH = .91
```

DATA SET SYMBOL
 (AB1004)
 (AB1014)
 (AB1017)

CONFIGURATION DESCRIPTION
 AVES 66-706 0A13 810 CS 07 M3 F4 V87E18 V5R5
 AVES 66-706 0A13 810 CS 07 M3 F4 V87E18 V5R5
 AVES 66-706 0A13 810 CS 07 M3 F4 V87E18 V5R5

BOOF LP
 -14.200
 -14.200
 -14.200

ELEVON
 .000
 .000
 .000

SPOBRK
 54.900
 54.900
 54.900

RUDDER
 .000
 -15.000
 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 50.F.T.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 VREF 1076.4800 IN.
 YREF .0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150

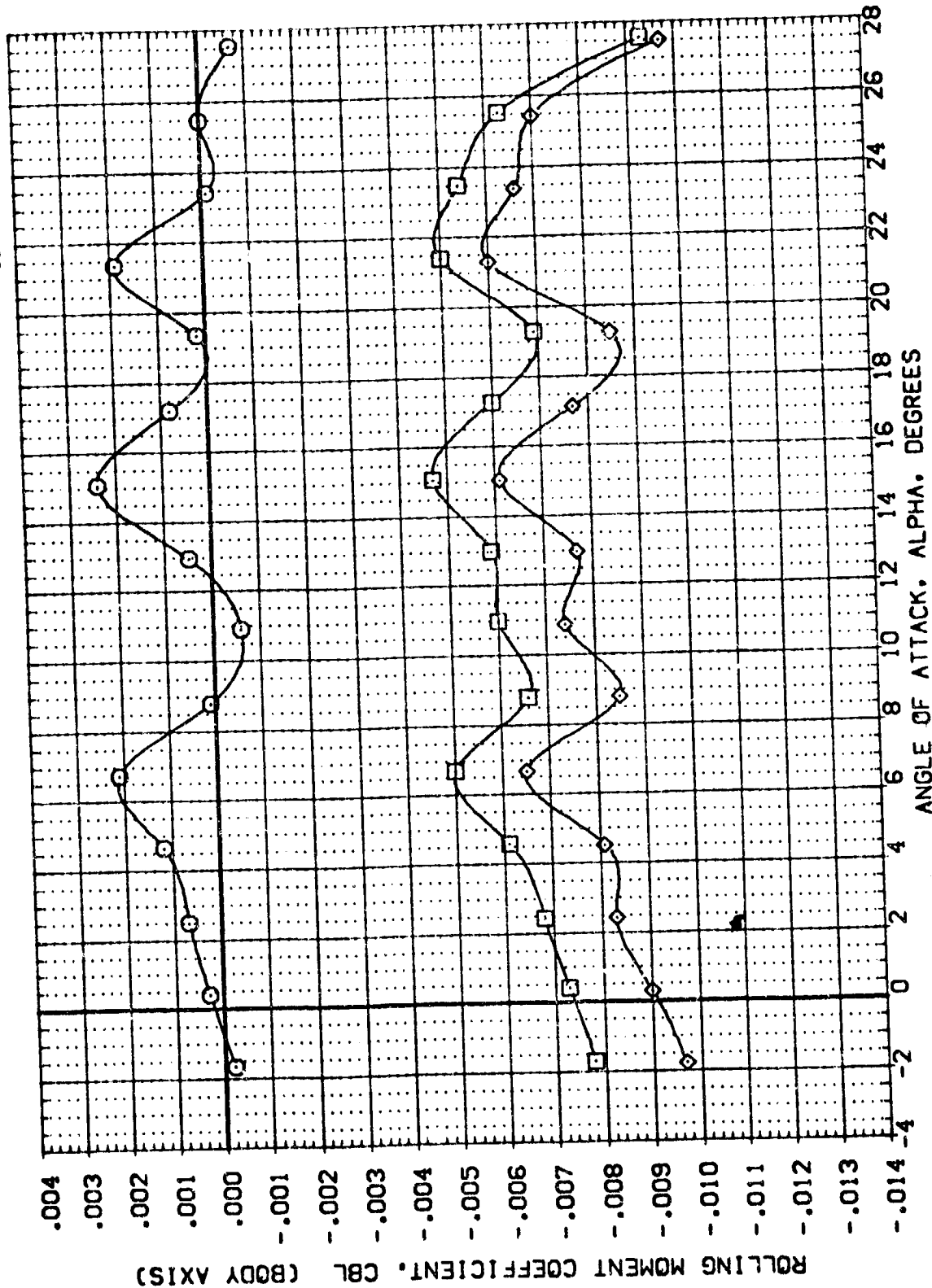


FIG. 21 RUDDER DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPODBK	RUDDER	REFERENCE INFORMATION
(ABT004)	AVES 66-705 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(ABT014)	AVES 66-705 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
(ABT017)	AVES 66-705 DA13 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	SREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

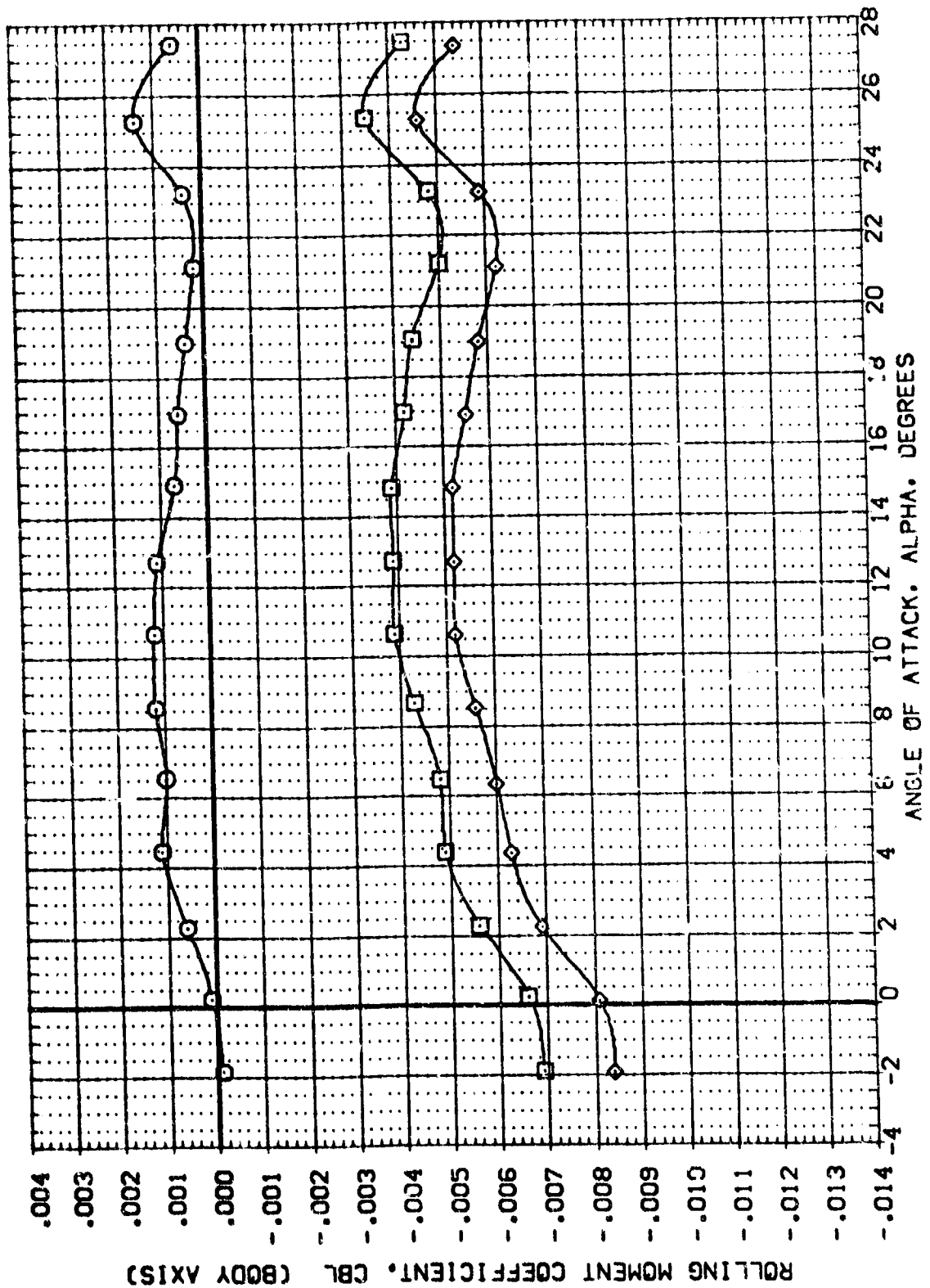


FIG. 21 RUDDER DEFLECTED
(C)MACH = 1.50

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[A8T004]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	.000	SAREF 2690.0000 SQ.FT.
[A8T014]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	UREF 474.8000 IN.
[A8T017]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	UREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 1000.0000 IN.
						ZREF 1000.0000 IN.
						SCALE .0150

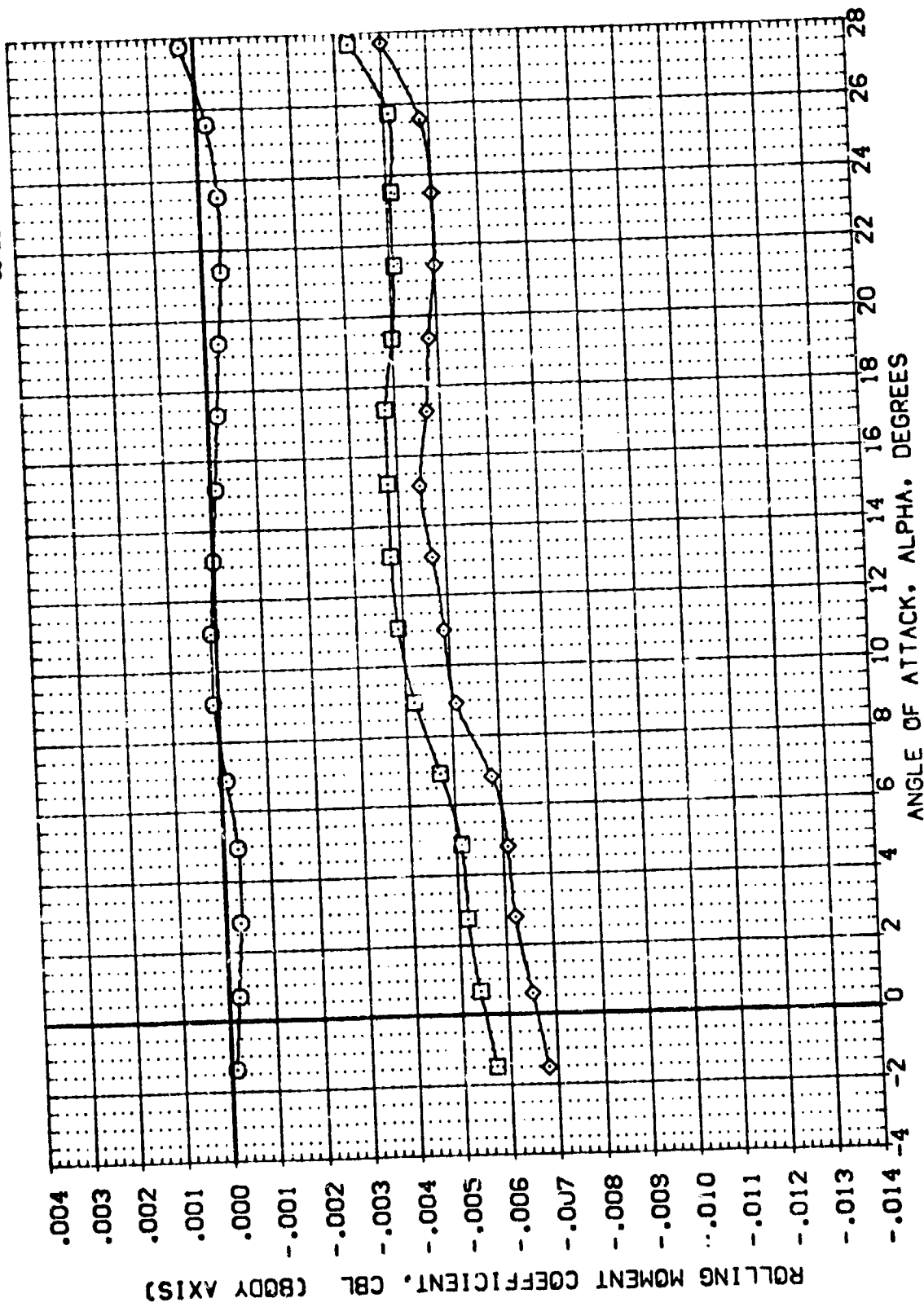


FIG. 21 RUDDER DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL: **Q** REFERENCE INFORMATION: SQ.FT.

CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER
AMES 66-706 QM43 B10 CS D7 M3 F4 V87E18 V5R5	-14.200	.000	54.900	-15.000
AMES 66-706 QM43 B10 CS D7 M3 F4 V87E1P V5R5	-14.200	.000	54.900	-20.000

REFERENCE INFORMATION: SQ.FT.

REF	REF	REF	REF
SREF 2690.0000	LREF 474.8000	YREF 936.6800	ZREF 1076.4800
SCALE .0150	SCALE .0150	SCALE .0150	SCALE .0150

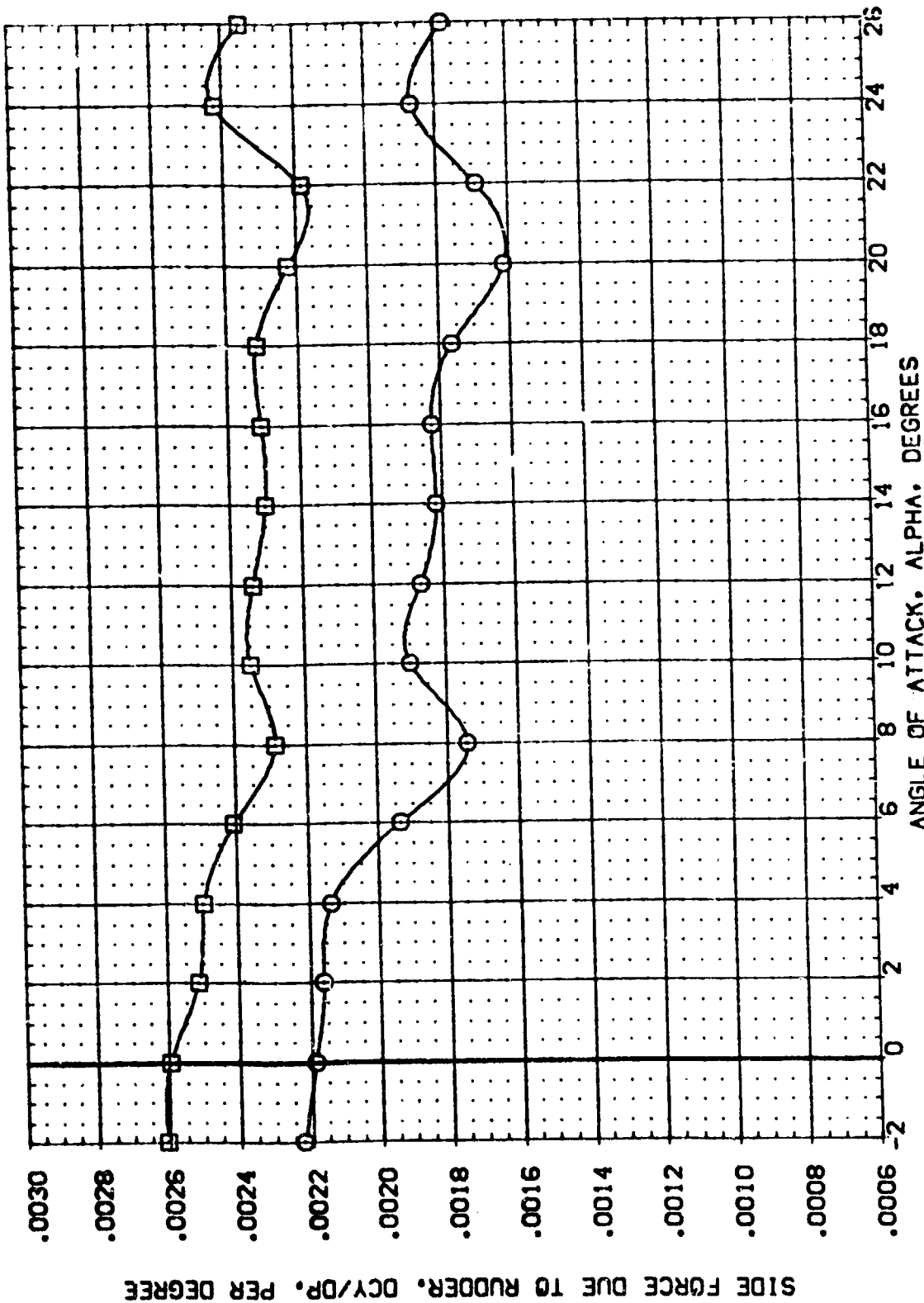


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(A)MACH = .60

DATA SET SYMBOL: (ABTC14) (ABTC17)

CONFIGURATION DESCRIPTION:
 AVE5 66-706 DA43 B10 CS D7 H3 F4 V87E18 V5R5
 AVE5 66-706 CA43 B10 CS D7 H3 F4 V87E18 V5R5

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 X-REF 1076.4800 IN.
 Y-REF 400.0000 IN.
 Z-REF 400.0000 IN.
 SCALE .0150

BOOF LP ELEVON SPOBRK RUDDER
 -14.200 .000 54.900 -15.000
 -14.200 .000 54.900 -20.000

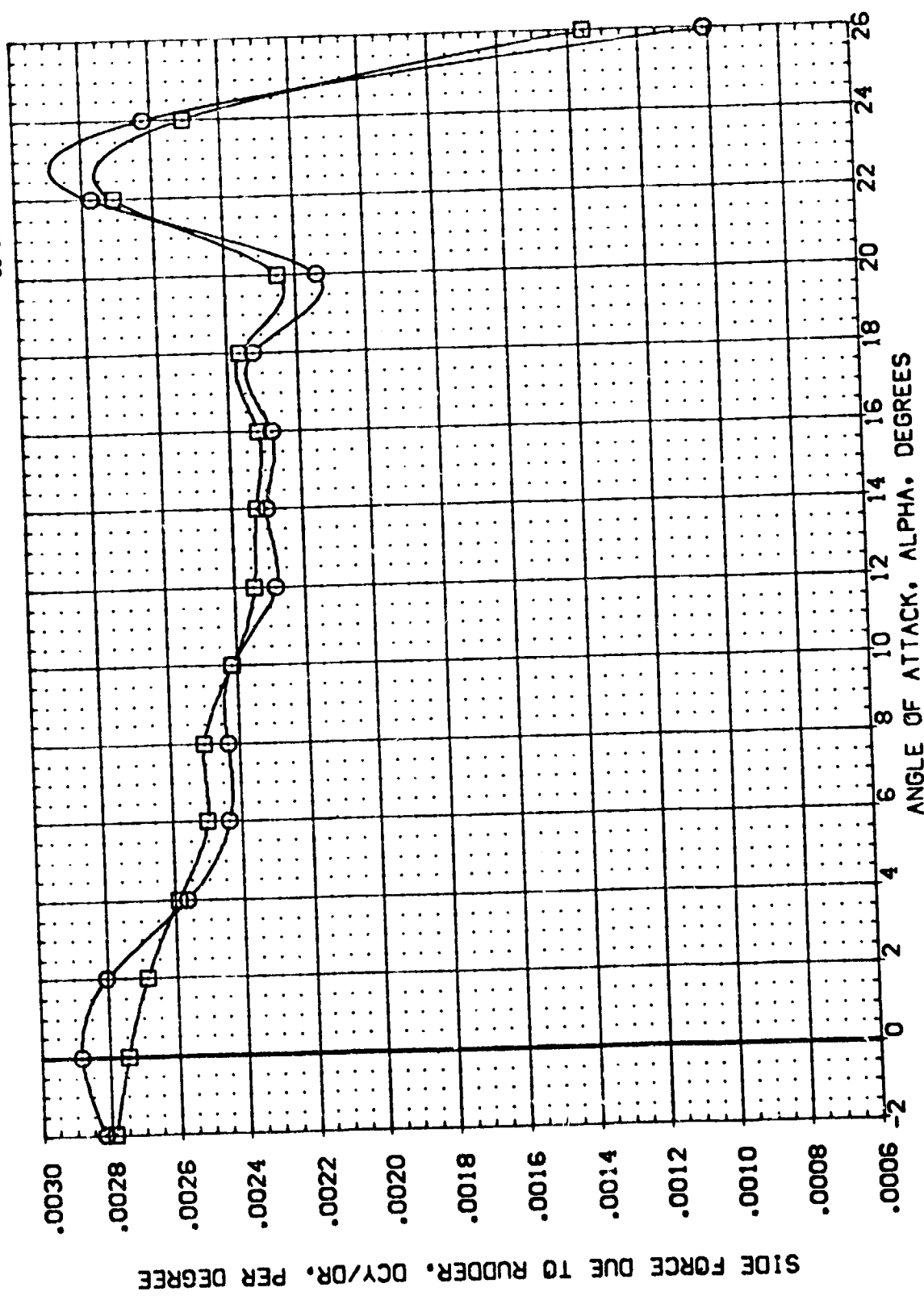


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(B)MACH = .90

DATA SET SYMBOL: ☐ (ABTCL17) ☐ (ABTCL18)

CONFIGURATION DESCRIPTION
 AVES 66-706 0A13 B10 CS 07 M3 F4 V87E18 V5RS
 AVES 66-706 0A13 B10 CS 07 M3 F4 V87E18 V5RS

BOOFLP ELEVON SPOBRK RUDDER
 -14.200 .000 54.900 -15.000
 -14.200 .000 54.900 -20.000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 935.6800 IN.
 XPRP 1076.4800 IN.
 YPRP .0000 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

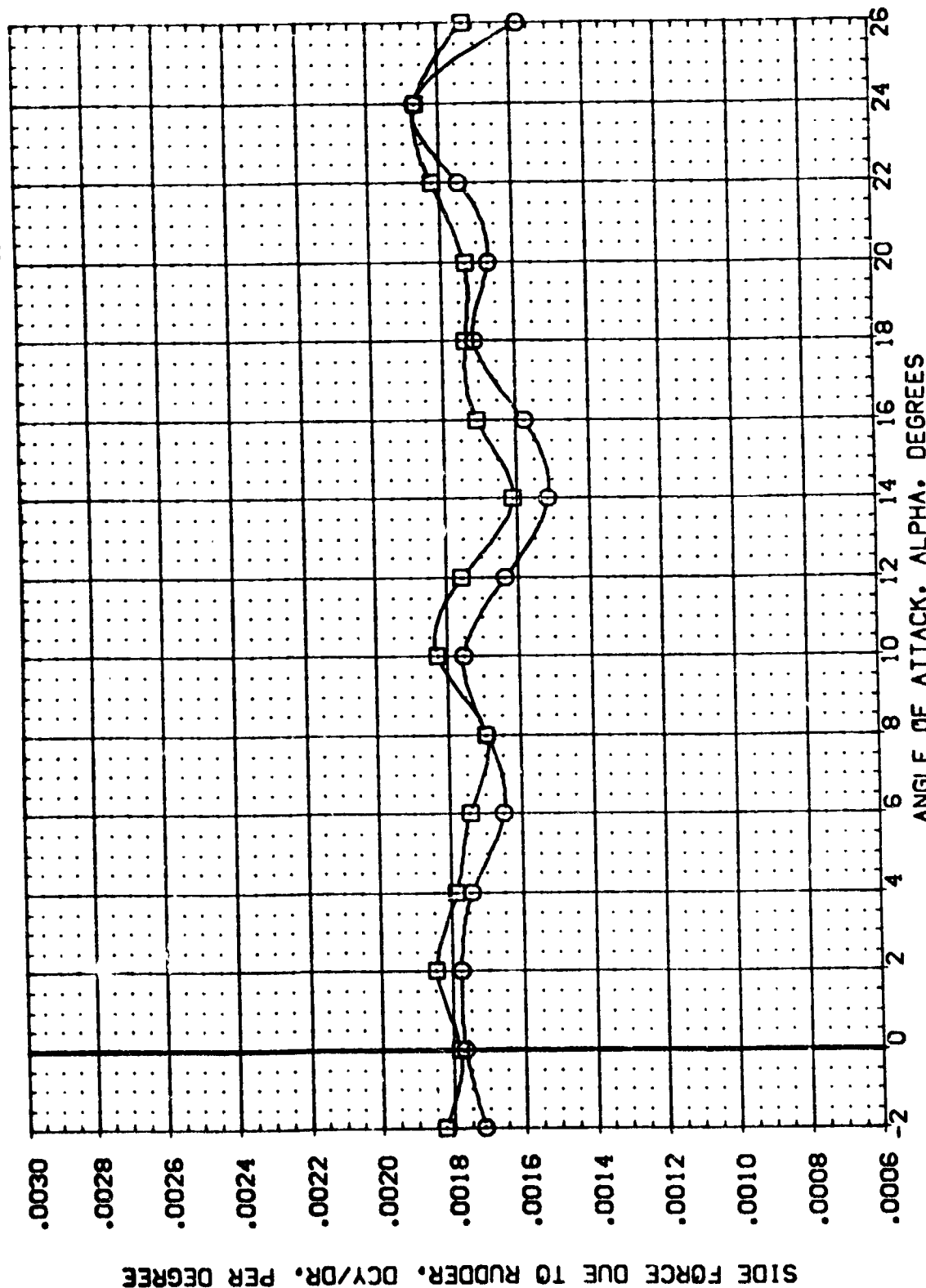
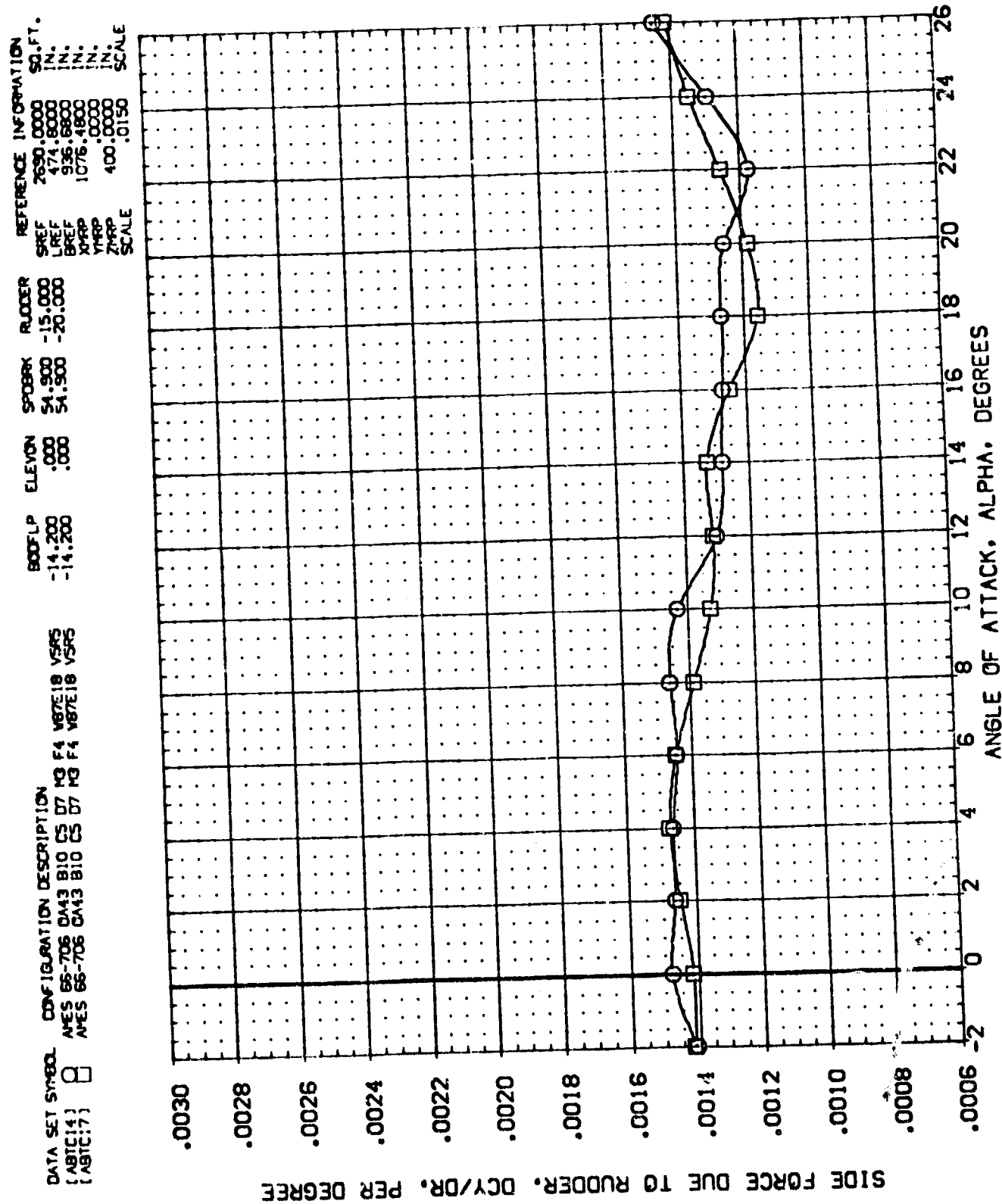


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(CMACH = 1.20)


$$[D]_{MACH} = 1.50$$

DATA SET SYMBOL: [ABTC14] [ABTC17] CONFIGURATION DESCRIPTION: AVES 66-706 0M43 B10 CS 07 M3 F4 V87E18 VS85 AVES 66-706 0M43 B10 CS 07 M3 F4 V87E18 VS85

BOOF LP: -14.200 ELEVON: .000 SPOBRK: 54.500 RUDDER: -15.000

REFERENCE INFORMATION: SREF: 2690.0000 SQ.FT. LREF: 474.8000 IN. BREF: 936.6800 IN. XPRP: 1076.4800 IN. YPRP: .0000 IN. ZPRP: 400.0000 IN. SCALE: .0150

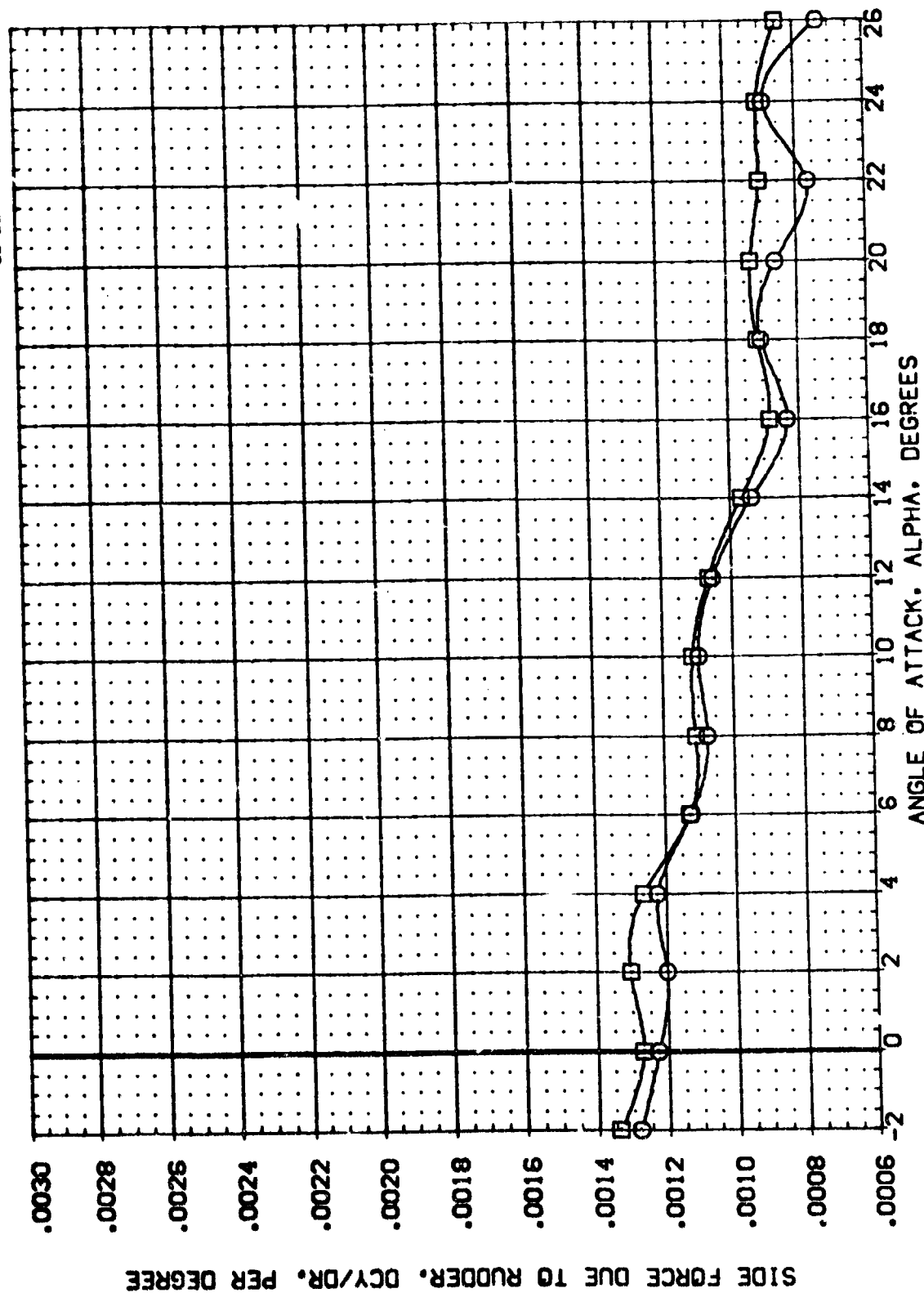


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(E)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABTC14)	AVES 66-706 DA43 B10 CS D7 PG F4 V87E18 V5K5	-14.200	.000	54.900	-15.000	SREF 2690.0000 SQ.FT.
(ABTC17)	AVES 66-706 DA43 B10 CS D7 PG F4 V87E18 V5K5	-14.200	.000	54.900	-20.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP .0000 IN.
						ZPRP 100.0000 IN.
						SCALE .0150

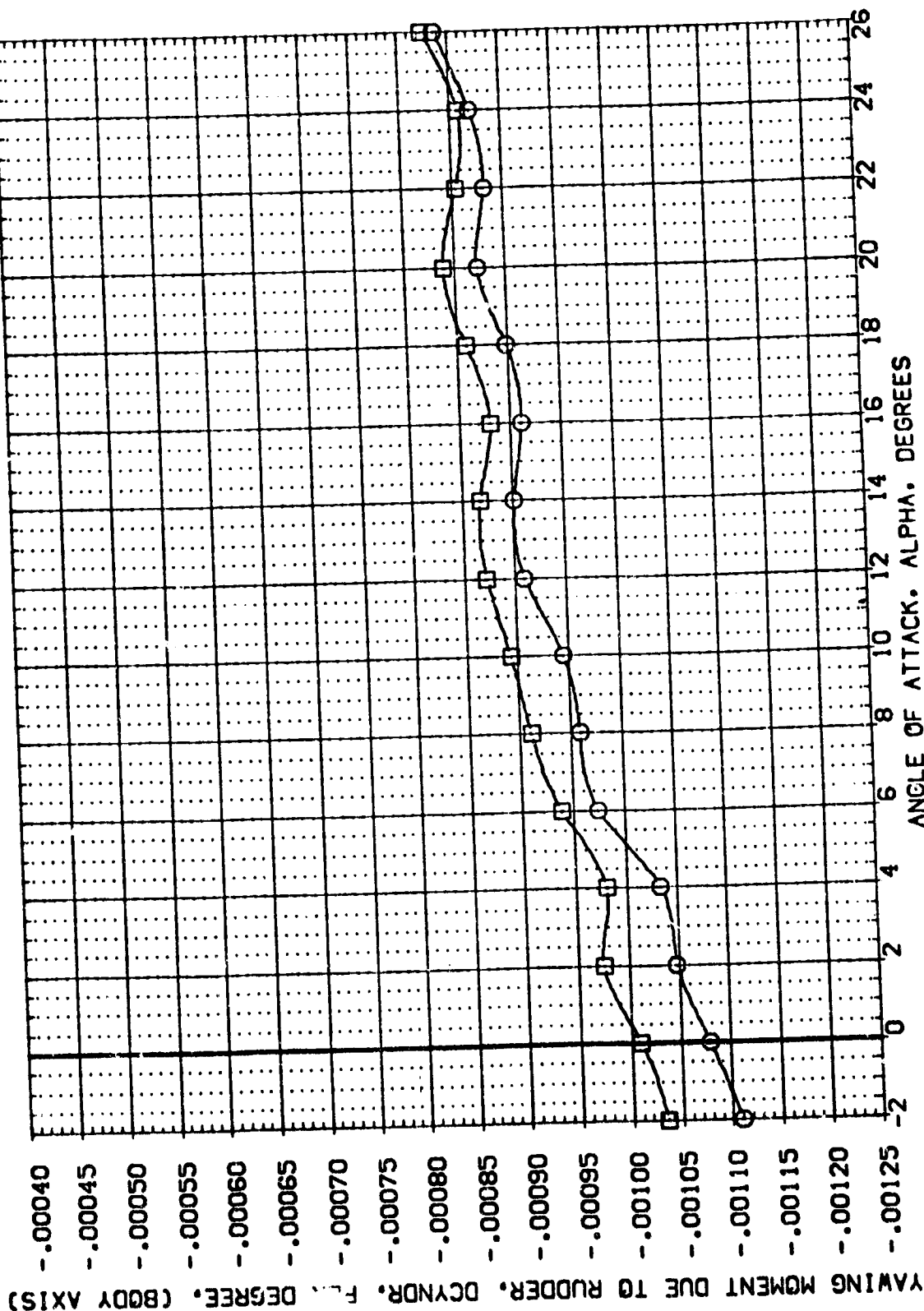


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(A)MACH = .60

Angle of Attack (Degrees)	Yawing Moment (Squares)	Yawing Moment (Circles)
0	-0.00070	-0.00078
2	-0.00069	-0.00076
4	-0.00068	-0.00074
6	-0.00067	-0.00072
8	-0.00066	-0.00070
10	-0.00065	-0.00068
12	-0.00064	-0.00066
14	-0.00063	-0.00064
16	-0.00062	-0.00062
18	-0.00061	-0.00060
20	-0.00060	-0.00058
22	-0.00059	-0.00056
24	-0.00058	-0.00054
26	-0.00055	-0.00065

FIG. 22 RUDDER DEFLECTION DERIVATIVES

$$(\text{D})_{\text{MACH}} = 1.50$$

DATA SET SYMB. CONFIGURATION DESCRIPTION

AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS

AVES 66-706 0A13 B10 CS D7 M3 F4 V87E18 VSRS

REF. INFO. SQ. FT.

SREF 2630.0000 IN.

LREF 474.8000 IN.

BREF 936.6800 IN.

XMRP 1076.4800 IN.

YMRP .0000 IN.

ZMRP 400.0000 IN.

SCALE .0150

BOOF LP ELEVON SPOBRX RUDDER

-14.200 .000 54.900 -15.000

-14.200 .000 54.900 -20.000

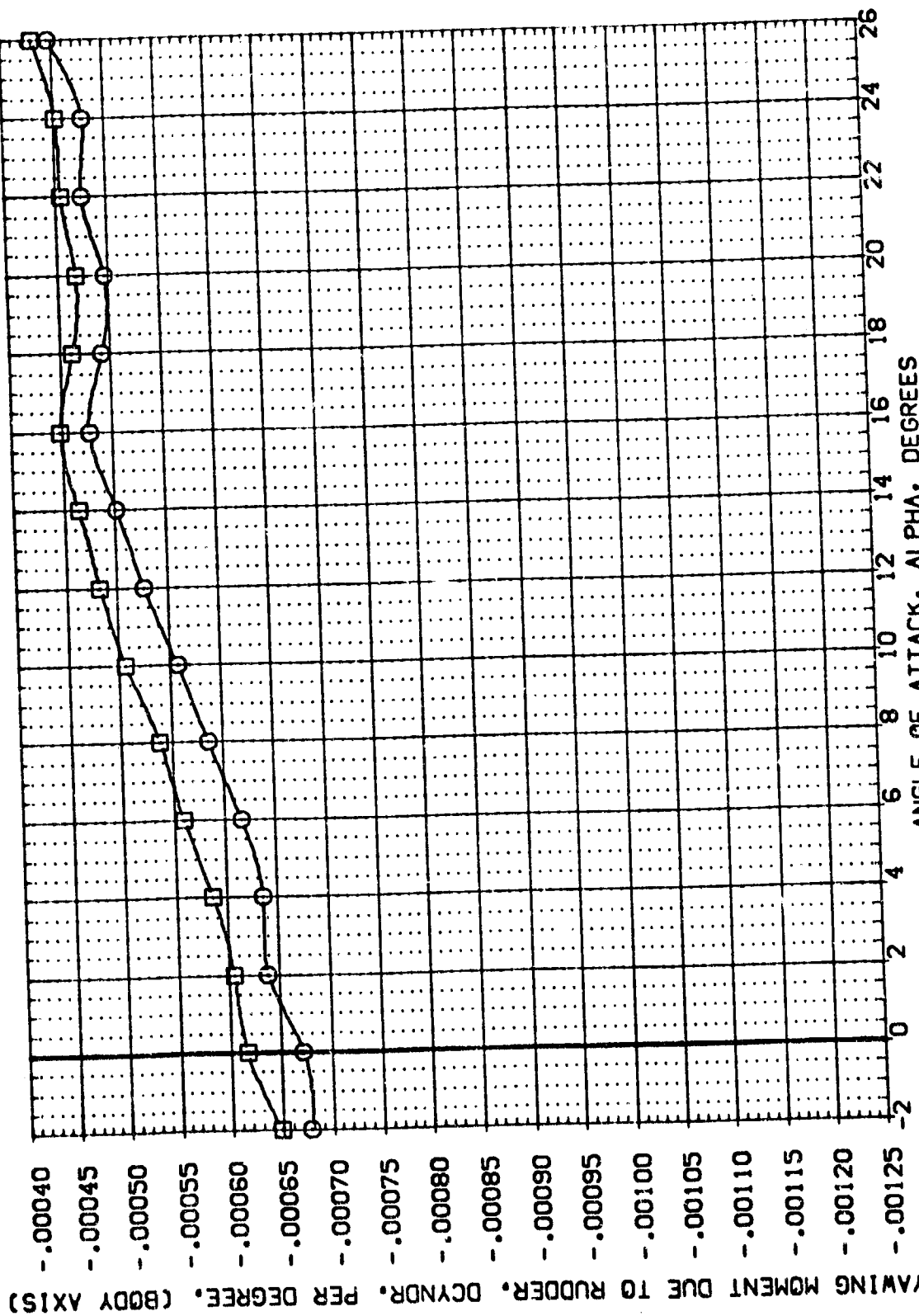


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(E)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
{ABTIC14}		AYES 66-706 0A13 B10 CS D7 M3 F4 V87E18 V5RS		-14.200		54.900		-15.000		SREF 2690.0000 SQ.FT.	
{ABTIC17}		AYES 66-706 0A13 B10 CS D7 M3 F4 V87E18 V5RS		-14.200		54.900		-20.000		LREF 474.8000 IN.	
										BREF 936.6800 IN.	
										XMRP 1076.4800 IN.	
										YMRP .0000 IN.	
										ZMRP 400.0000 IN.	
										SCALE .0150	

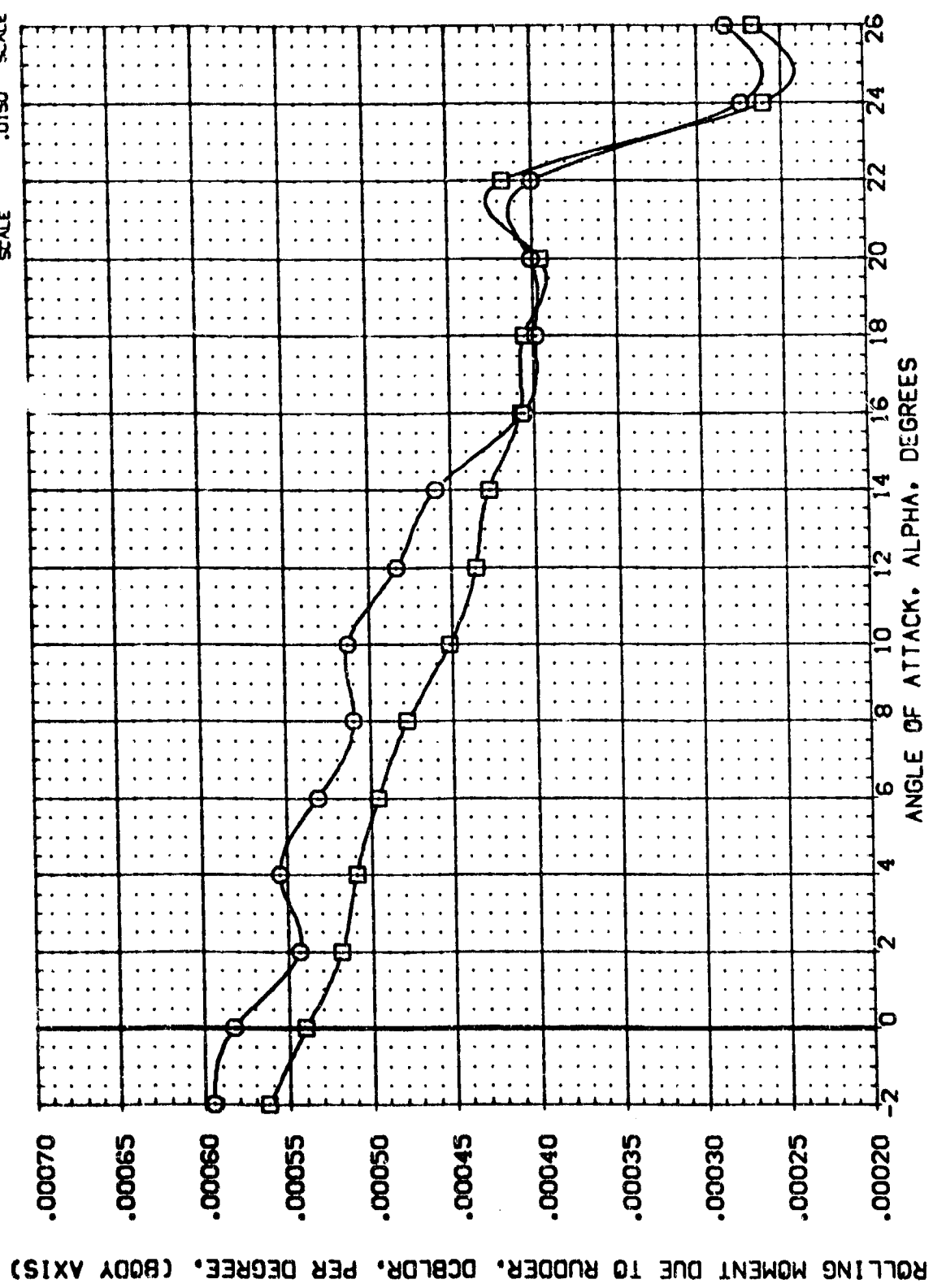


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(A)MACH = .60



DATA SET SYMBOL: (ABTC14) (ABTC17)

CONFIGURATION DESCRIPTION: AVES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VS95
AVES 66-706 CM43 B10 CS D7 M3 F4 V87E18 VS95

BOOFLP: -14.200 -14.200

ELEVON: .000 .000

SPOBRK: 54.900 54.900

RUDDER: -15.000 -20.000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT.
LREF 474.8000
BREF 936.6800
XMRP 1076.4800
YMRP .0000
ZMRP 400.0000
SCALE .0150

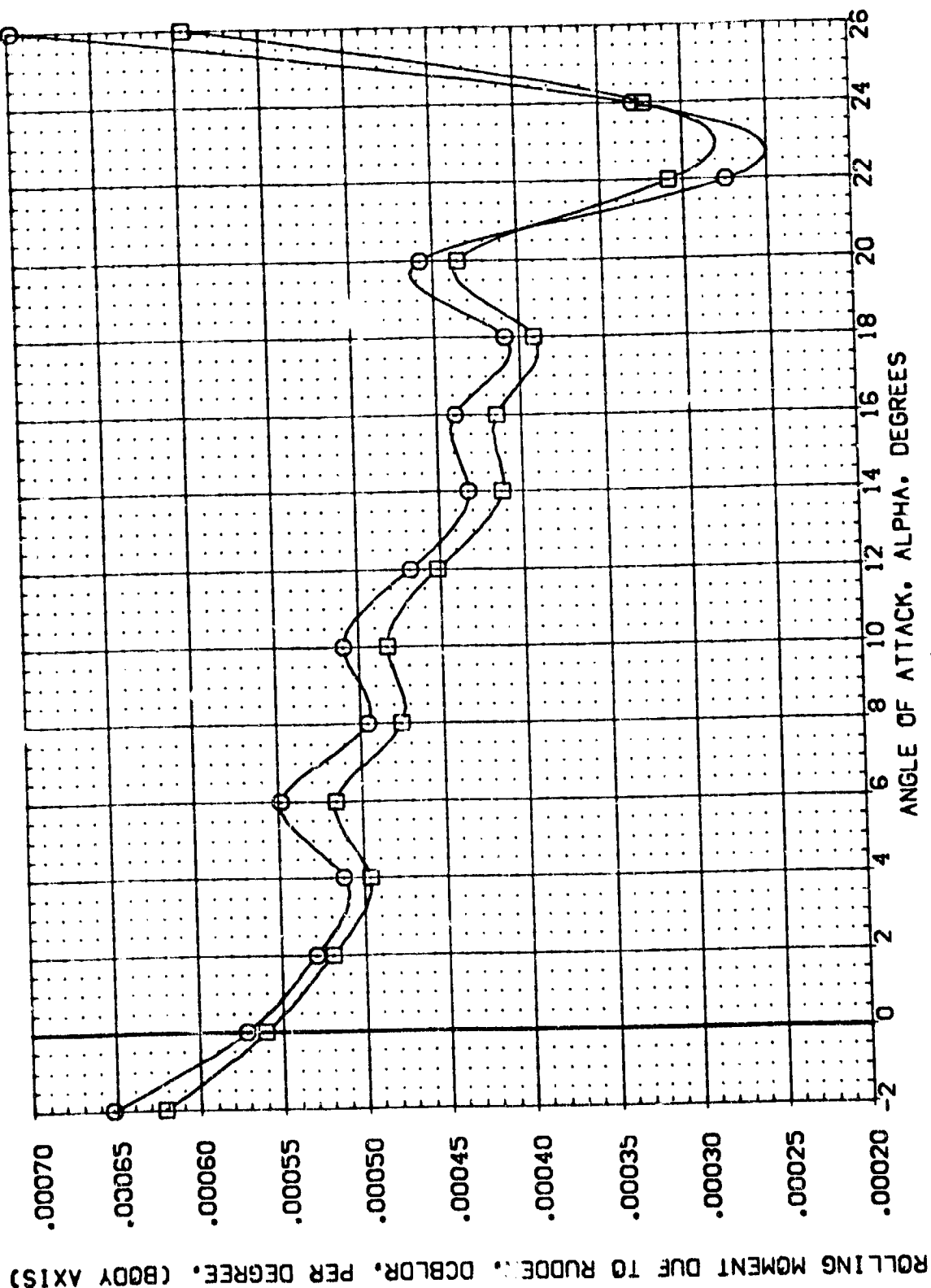


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(B)MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										REFERENCE INFORMATION			
[A9TC14]		AMES 66-706	DA43	B10	CS	07	M3	F4	V87E18	VSR6	SREF 2690.0000 50				
[A8TC17]		AMES 66-706	DA43	B10	CS	07	M3	F4	V87E18	VSR6	LREF 474.8000 IN.				
											BREF 936.6800 IN.				
											XMRP 1076.4800 IN.				
											YMRP .0000 IN.				
											ZMRP 400.0000 IN.				
											SCALE .0150				

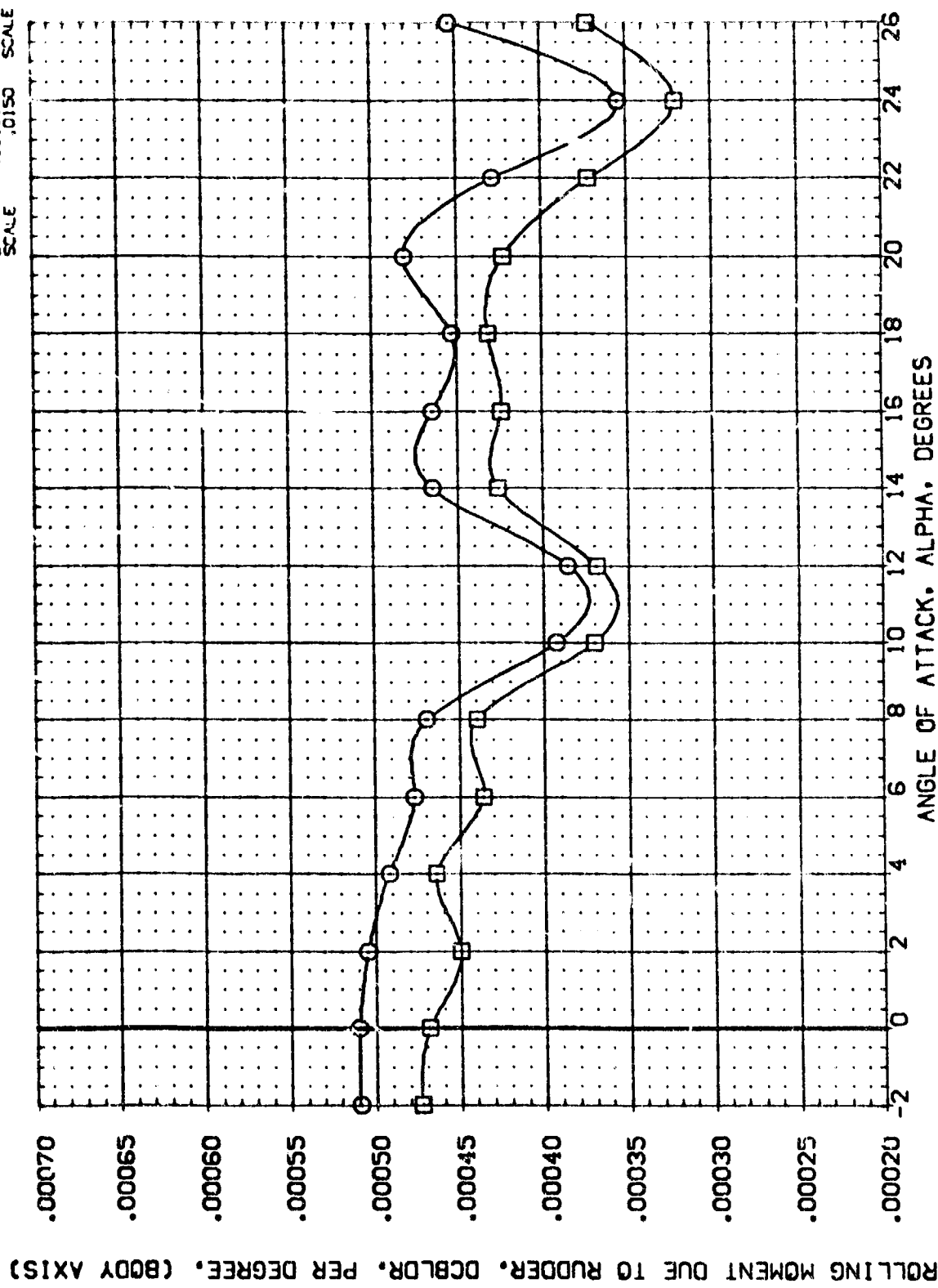


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(C)MACH = 1.20



DATA SET SYMBOL
(ABIC14)
(ABIC17)

CONFIGURATION DESCRIPTION
AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS
AVES 66-706 CA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFUP ELEVON SPOBRK RUDDER
-14.200 .000 54.900 -15.000
-14.200 .000 54.900 -20.000

REFERENCE INFORMATION
SREF 2630.0000 SQ.FT.
JREF 474.8000 IN.
BREF 936.6800 IN.
XREF 1076.4800 IN.
YREF 400.0000 IN.
ZREF 400.0000 IN.
SCALE .0150

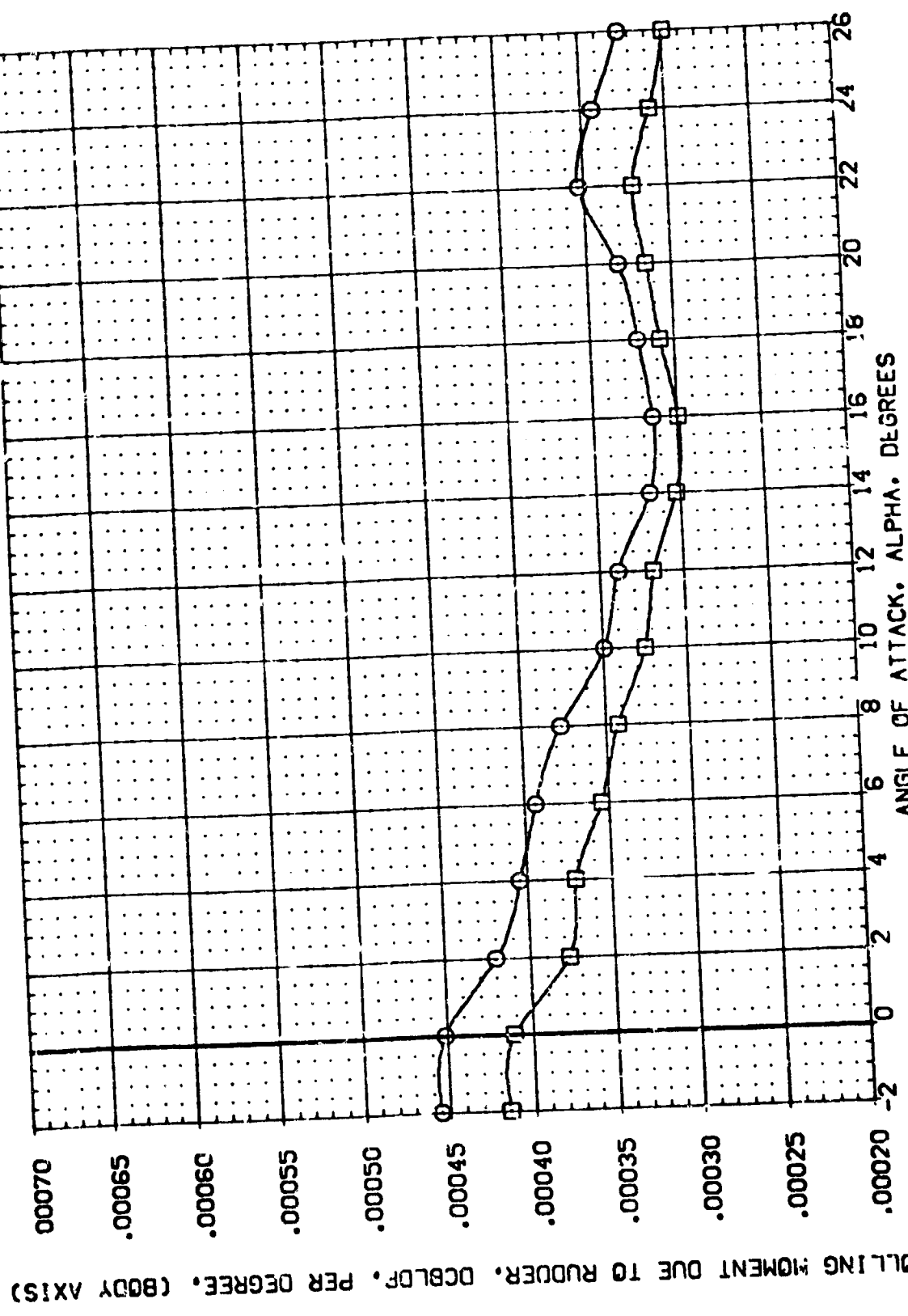


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(C)MACH = 1.50

DATA SET SYMBOL: [AB7C14] [AB7C17]

CONFIGURATION DESCRIPTION: AYES 56-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOF LP: -14.200 -14.200

ELEVON: .000 .000

SPOBRX: 54.900 54.900

RUDDER: -15.000 -20.000

REFERENCE INFORMATION:

SREF	2690.0000	50. FT.
LREF	474.8000	IN.
BREF	930.6800	IN.
XMRP	1076.4800	IN.
YMRP	400.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

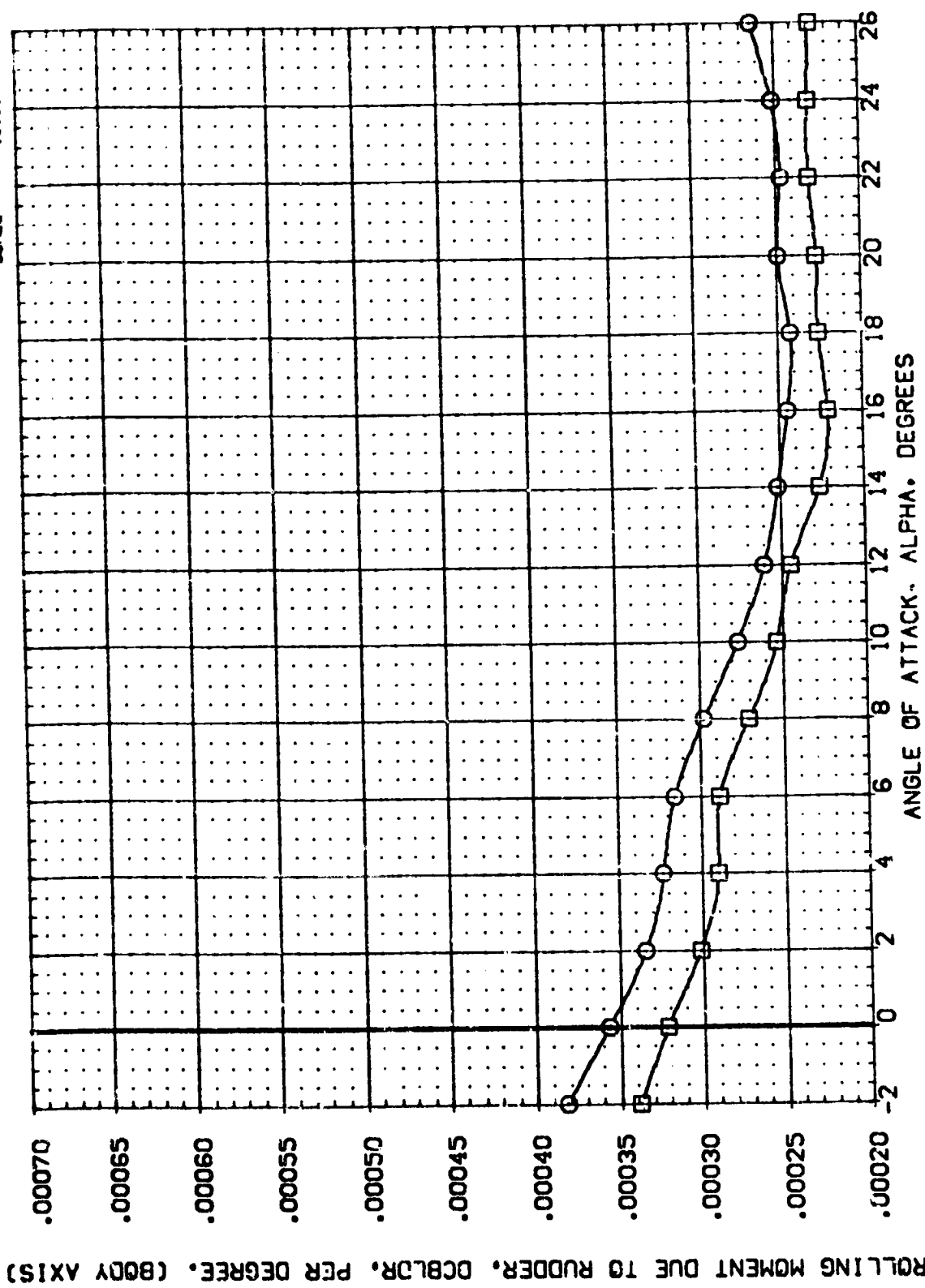


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(E)MACH = 2.00



DATA SET SYMBOL: [AB7D14] [AB7D17] CONFIGURATION DESCRIPTION: AYES 66-706 3443 B10 C5 D7 M3 F4 V87E18 VSRS AYES 66-706 0443 B10 C5 D7 M3 F4 V87E18 VSRS

BOOF LP: -14.200 ELEVON: .000 SPOBRX: 54.900 RUDDER: -15.000

REFERENCE INFORMATION: SWAY: 2690.0000 SQ.FT. LREF: 474.8000 IN. BREF: 936.6800 IN. XTRP: 1076.4800 IN. YTRP: .0000 IN. ZTRP: 400.0000 IN. SCALE: .0150

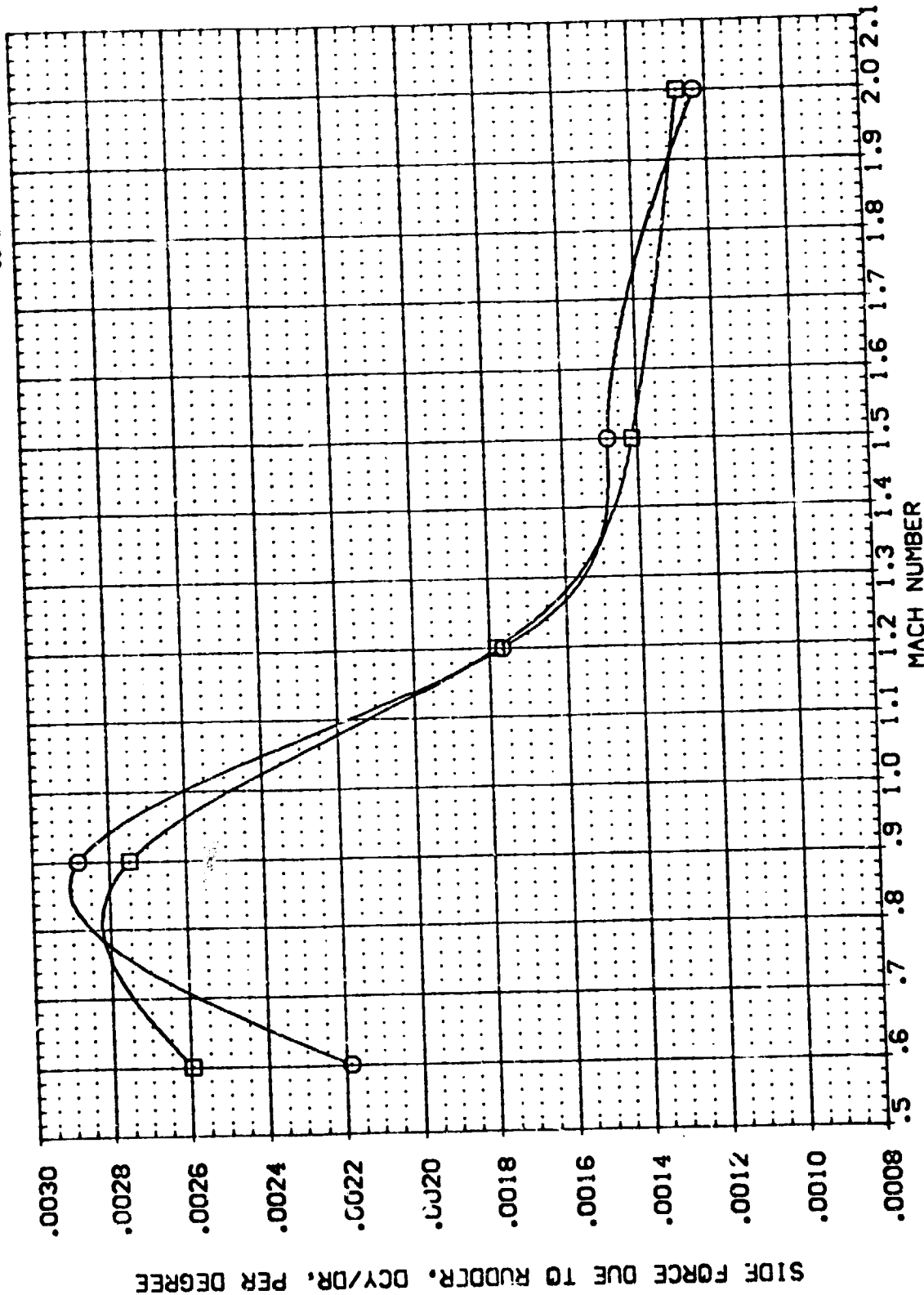


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(α) ALPHA = .00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BOOF (P		ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
{AB:214}		APES 66-705 CA13 B10 C5 D7 M3 F4 V87E18 VSRS		-14.200		.000		54.900		-15.000		SREF 2650.0000 SQ.FT.	
{ABTC:7}		APES 66-705 CA13 B10 C5 D7 M3 F4 V87E18 VSRS		-14.200		.000		54.900		-20.000		LREF 474.8000 IN.	
												BREF 936.6800 IN.	
												XMRP 1076.4800 IN.	
												YMRP .0000 IN.	
												ZMRP 400.0000 IN.	
												SCALE .0150	

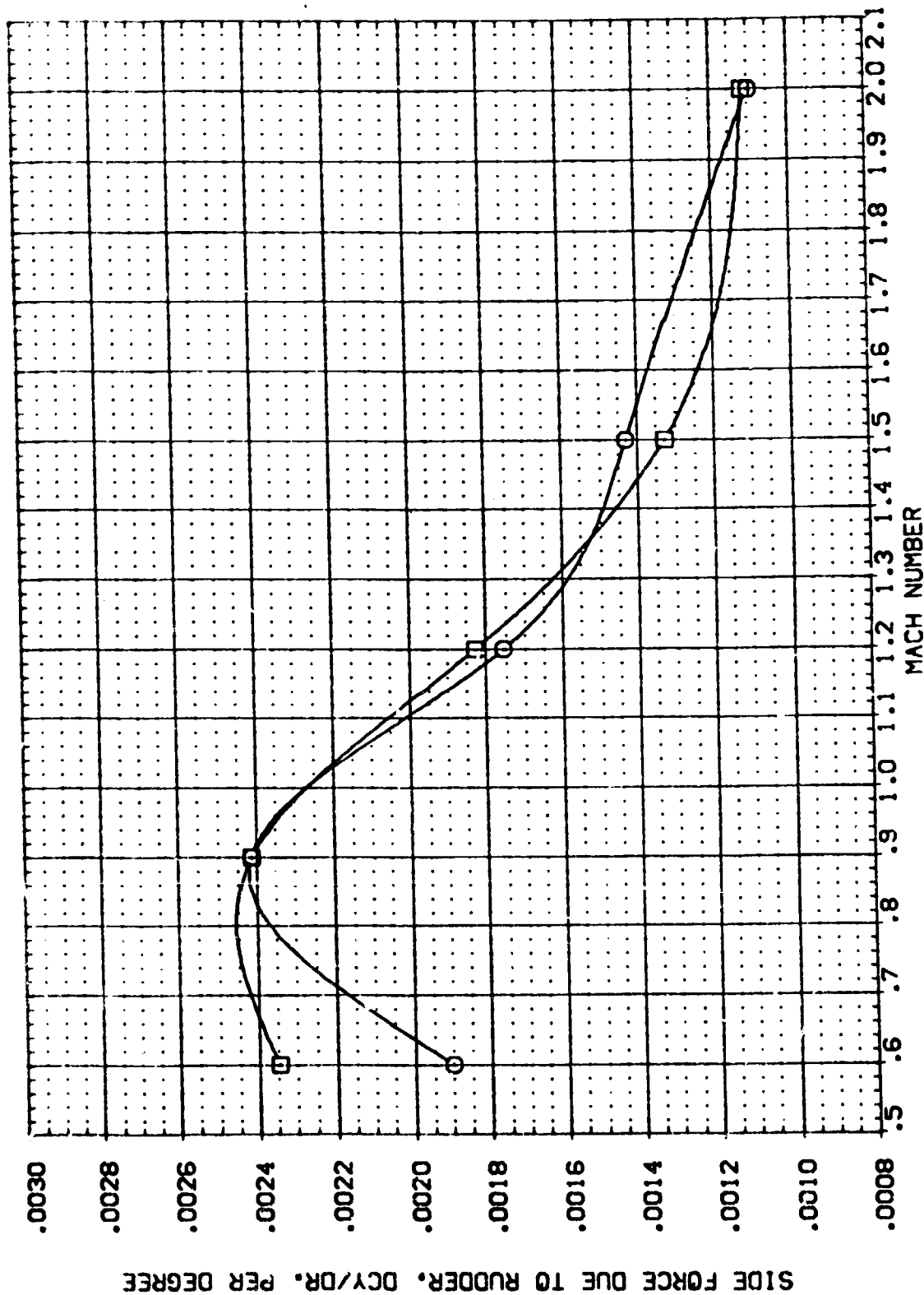


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(B) ALPHA = 10.00



DATA SET SYMBOL: ☐ (ARTID:4) ☐ (ABTID:7)

CONFIGURATION DESCRIPTION
 AYES 65-705 0A43 810 CS 07 PG F4 V87E18 VS95
 AYES 65-705 0A43 810 CS 07 PG F4 V87E18 VS95

BOOFUP -14.200
 ELEVON .000
 SPOBRK 54.900
 RUDDER -15.000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XPRP 1076.0000 IN.
 YPRP 400.0000 IN.
 ZPRP 400.0000 IN.
 SCALE 0.50

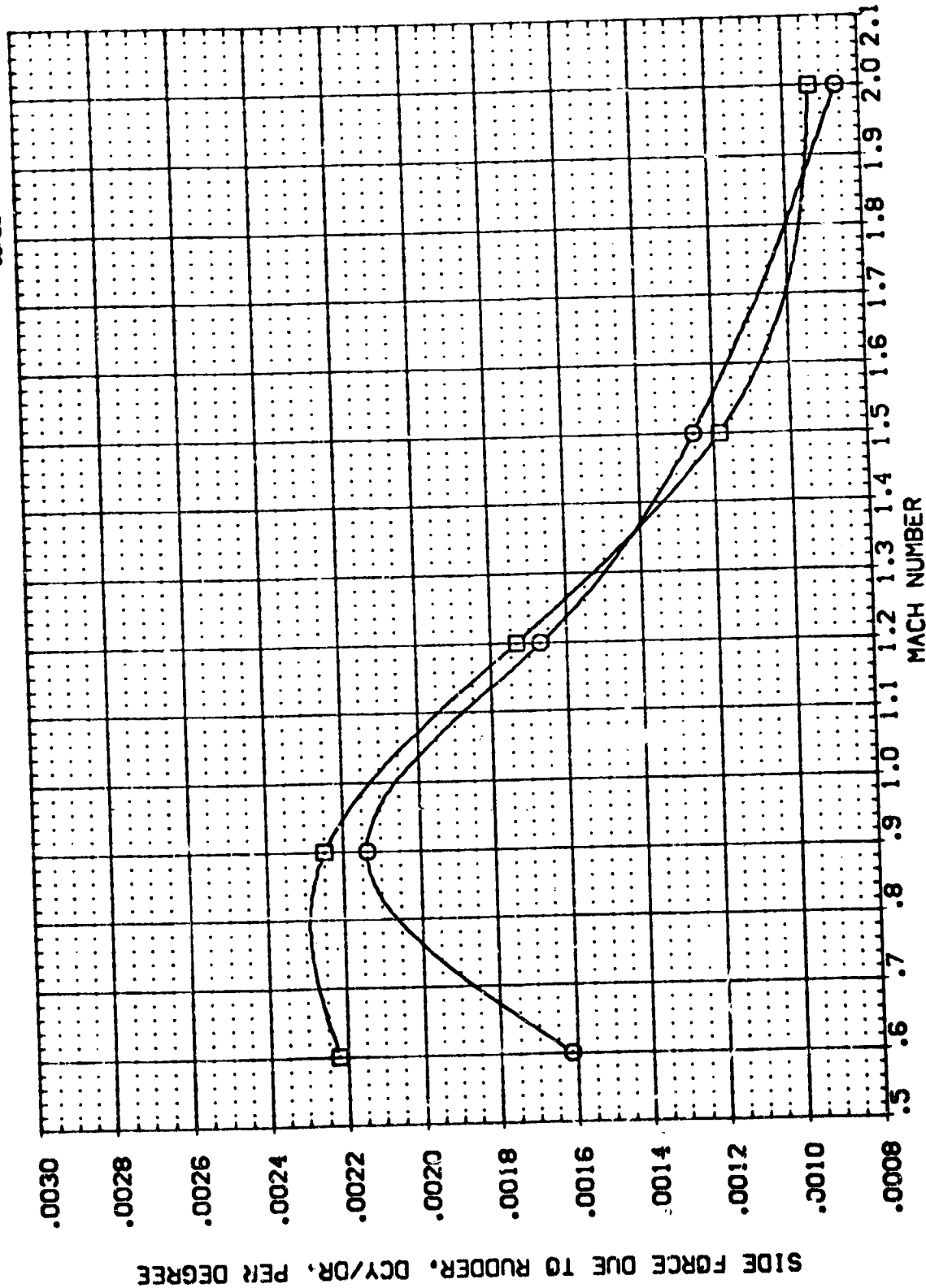


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(C)ALPHA = 20.00

DATA SET SYMBOL: (ABT017)
 CONFIGURATION DESCRIPTION: AVES 68-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AVES 68-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOF LP ELEVON SPODRY RUDDER
 -14.200 .000 54.900 -15.000
 -14.200 .000 54.900 -20.000

REFERENCE INFORMATION
 SREF 2630.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150

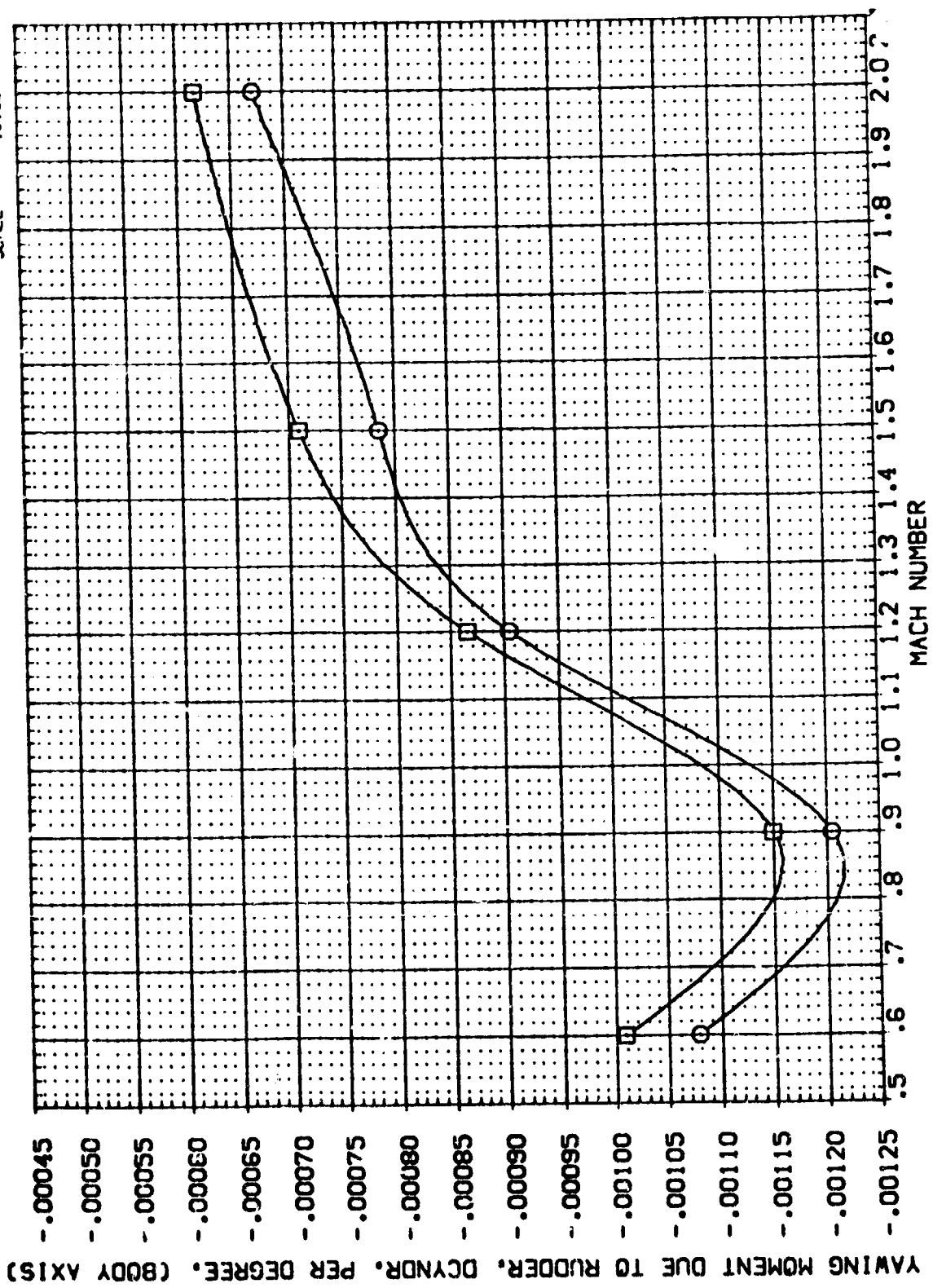


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(A) ALPHA = .00

DATA SET SYMBOL	CO-FIGURATION DESCRIPTION	BOOTLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A9-214)	AVES 66-706 0M43 B10 CS 07 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	SREF 2690.0000 50.FT.
(A8-217)	AVES 66-706 0M43 B10 CS 07 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						APRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

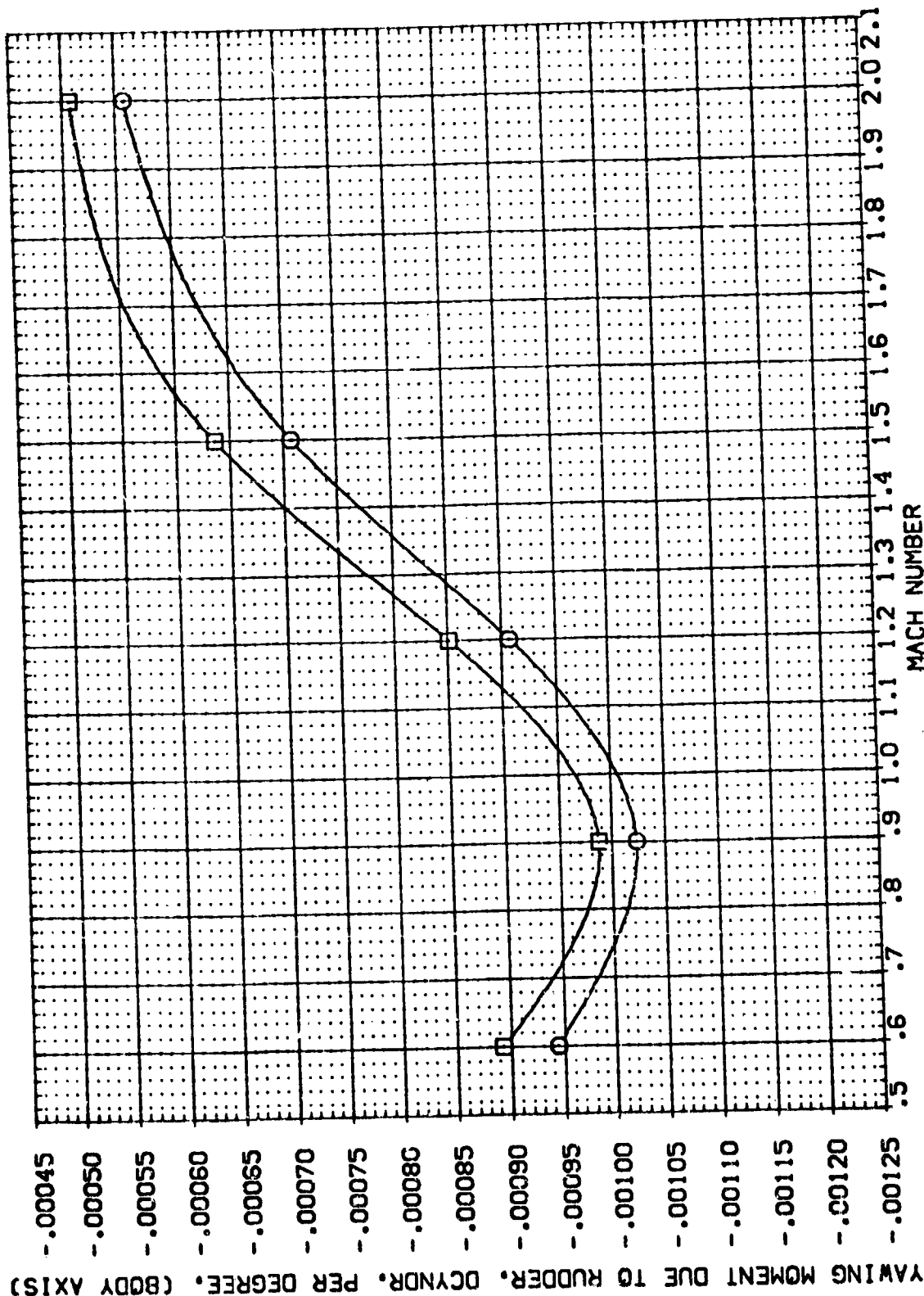


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRX	RUDDER	REFERENCE INFORMATION
(ABTD14)	AMES 66-706 0413 B10 CS D7 M3 F4 V87E18 VSNS	-14.200	.000	54.900	-15.000	SREF 2690.0000 SQ.FT.
(ABTD17)	AMES 66-706 0413 B10 CS D7 M3 F4 V87E18 VSNS	-14.200	.000	54.900	-20.000	LR EF 474.8000 IN.
						BR EF 938.5900 IN.
						XR EF 1076.1800 IN.
						YMRD .0000 IN.
						ZMRD 400.0000 IN.
						SCALE .0150

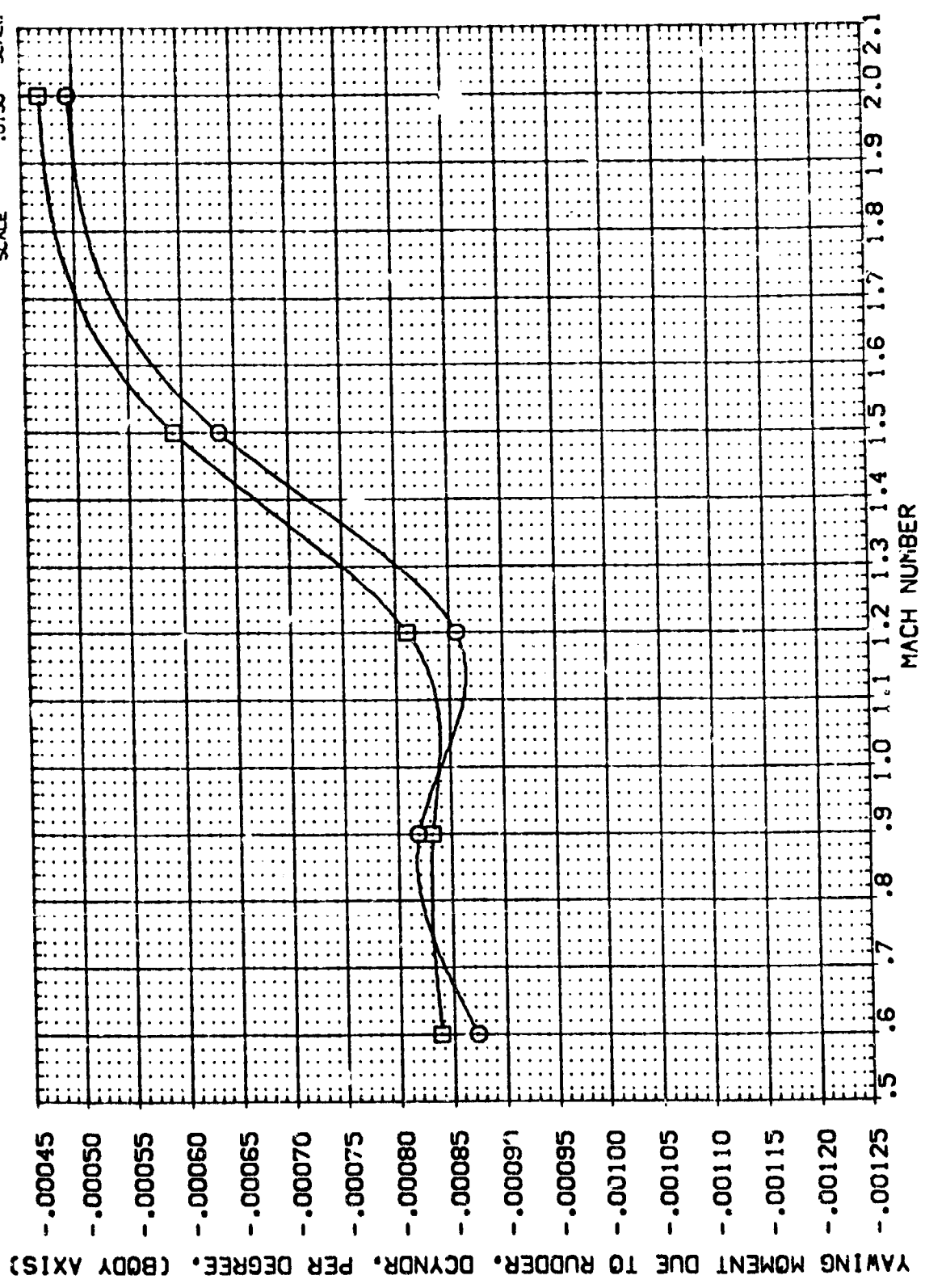


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(CJALPHA = 20.00

DATA SET SYMBOL	CONF IGATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
(ABTD:14)	AES 66-706 QM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	.000	54.300	-15.000	SREF 2690.0000 SQ.FT.
(ABTD:17)	AES 66-706 QM43 B10 CS D7 M3 F4 V87E18 VSR5	-14.200	.000	54.900	-20.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0150

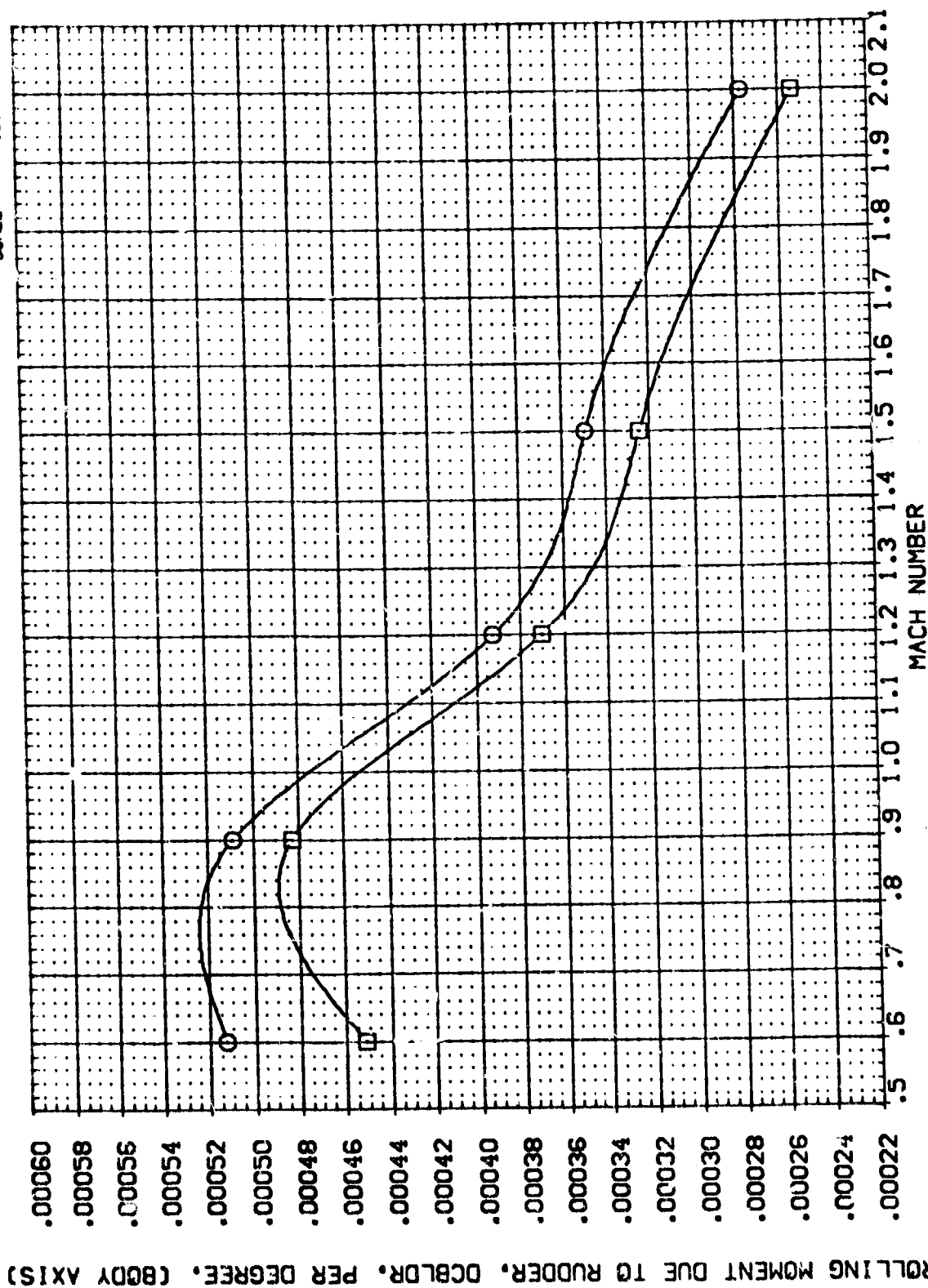


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(B) ALPHA = 10.00



DATA SET SYMBOL: [ABT014] [ABT017]
CONFIGURATION DESCRIPTION: AVES 66-706 CM3 B10 CS 07 H3 F4 V87E18 VS95
AVES 66-706 CM3 B10 CS 07 H3 F4 V87E18 VS95
BOOFLP: -14.200
ELEVON: .000
SPDBRK: 54.900
RUDDER: -15.000
REFERENCE INFORMATION: SREF: 2690.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XTRP: 1076.4800 IN.
YTRP: .0000 IN.
ZTRP: 400.0000 IN.
SCALE: .0150

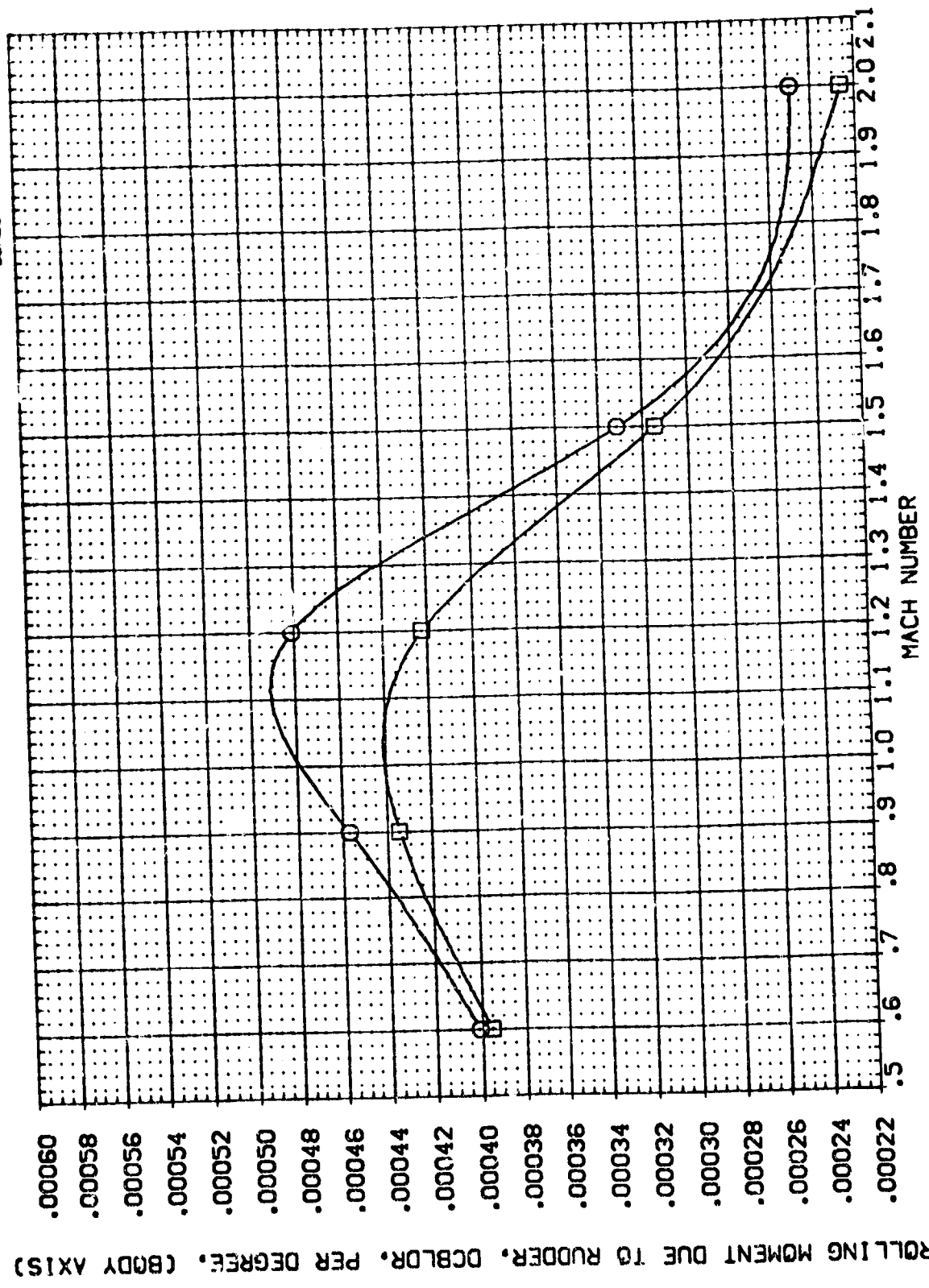


FIG. 22 RUDDER DEFLECTION DERIVATIVES

(CJALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOPLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A9T013)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-10.000	SREF 2650.0000 SQ.FT.
(A9T015)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	24.900	-10.000	LREF 474.8000 IN.
(A9T016)	AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	.000	-10.000	SREF 936.8800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

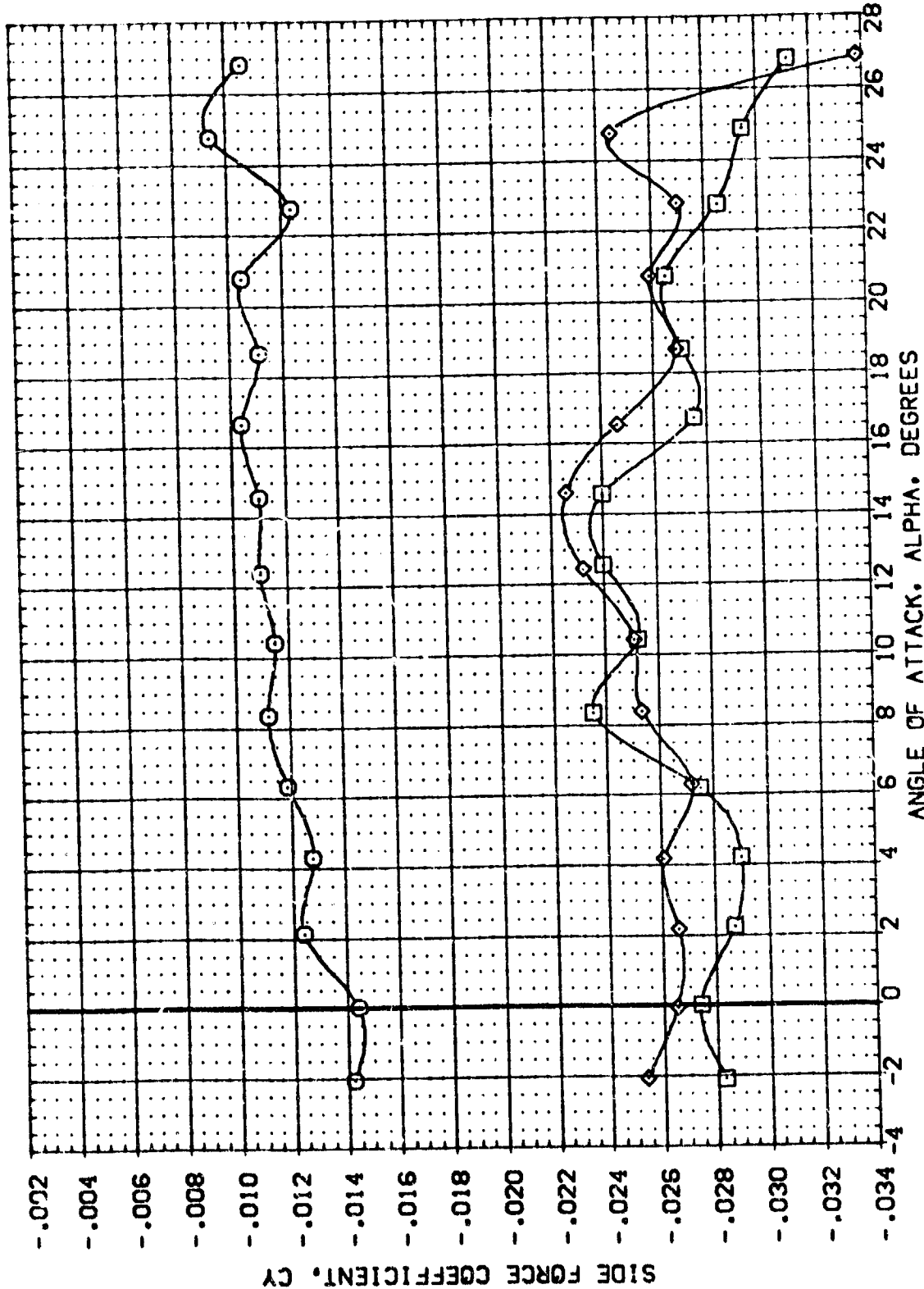


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPDRK	RUDDER	REFERENCE INFORMATION	SO. FT.
(A9'0:3)	AMES 66-706 0A43 810 CS D7 M3 F4 V87E18 V595	-14.200	.000	54.900	-10.000	SREF	2550.0000
(A9'0:5)	AMES 66-706 0A43 810 CS D7 M3 F4 V87E18 V595	-14.200	.000	24.900	-10.000	LREF	474.8000
(A9'0:6)	AMES 66-706 0A43 810 CS D7 M3 F4 V87E18 V595	-14.200	.000	.000	-10.000	BREF	936.6800
						YREF	1076.4800
						ZREF	400.0000
						SCALE	.0150

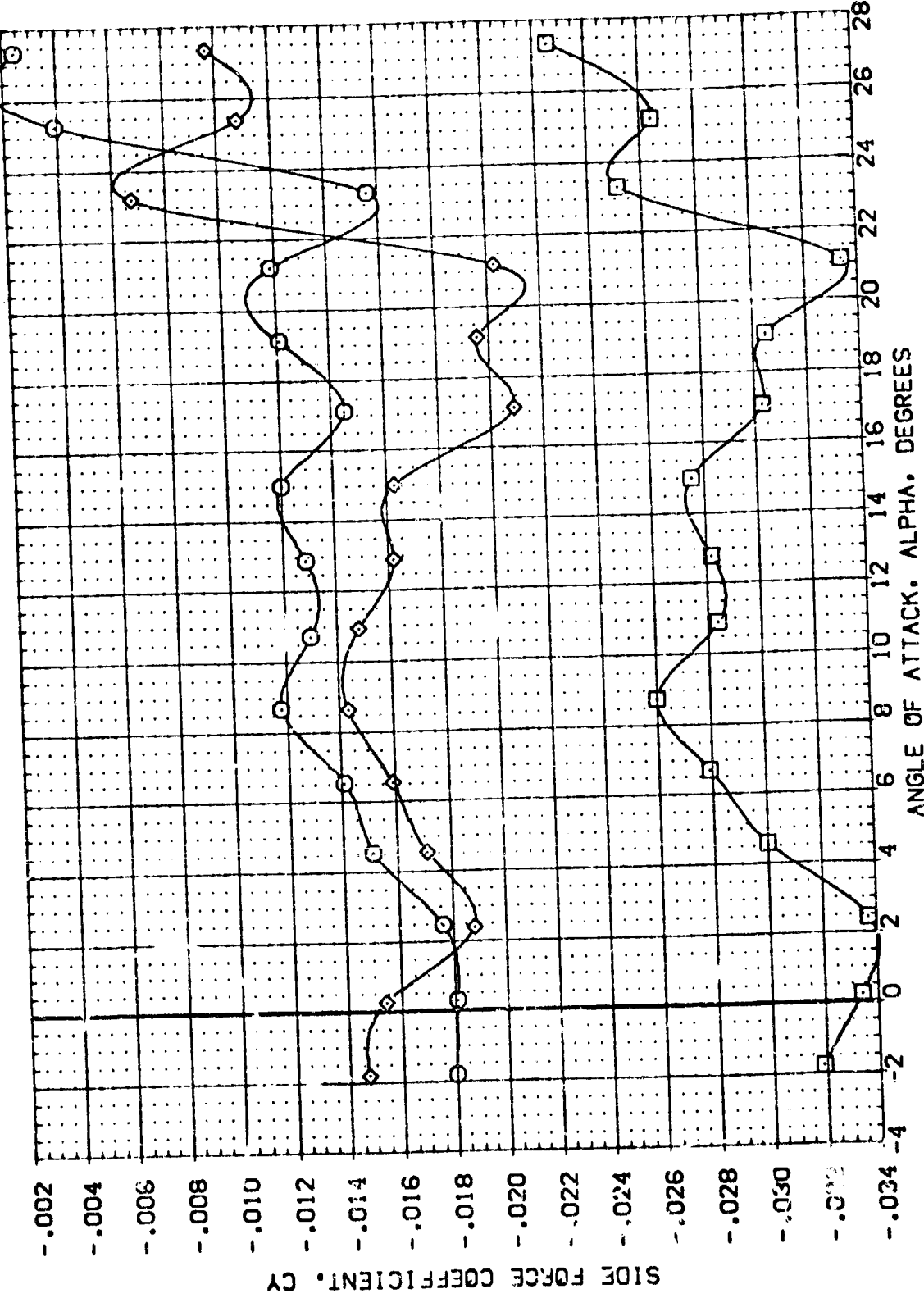


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(B)MACH = .90

DATA SET SYMBOL: CABT03, CABT05, CABT06, CABT07, CABT08, CABT09, CABT10, CABT11, CABT12, CABT13, CABT14, CABT15, CABT16, CABT17, CABT18, CABT19, CABT20, CABT21, CABT22, CABT23, CABT24, CABT25, CABT26, CABT27, CABT28, CABT29, CABT30, CABT31, CABT32, CABT33, CABT34, CABT35, CABT36, CABT37, CABT38, CABT39, CABT40, CABT41, CABT42, CABT43, CABT44, CABT45, CABT46, CABT47, CABT48, CABT49, CABT50, CABT51, CABT52, CABT53, CABT54, CABT55, CABT56, CABT57, CABT58, CABT59, CABT60, CABT61, CABT62, CABT63, CABT64, CABT65, CABT66, CABT67, CABT68, CABT69, CABT70, CABT71, CABT72, CABT73, CABT74, CABT75, CABT76, CABT77, CABT78, CABT79, CABT80, CABT81, CABT82, CABT83, CABT84, CABT85, CABT86, CABT87, CABT88, CABT89, CABT90, CABT91, CABT92, CABT93, CABT94, CABT95, CABT96, CABT97, CABT98, CABT99, CABT100

CONFIGURATION DESCRIPTION: AYES 66-706 CA43 B10 CS 07 MG F4 V87E18 VSR5, AYES 66-706 CA43 B10 CS 07 MG F4 V87E18 VSR5, AYES 66-706 CA43 B10 CS 07 MG F4 V87E18 VSR5

BOEFLP: -14.200, -14.200, -14.200

ELEVON: .000, .000, .000

SPOBRK: 54.500, 24.500, .000

RUDDER: -10.000, -10.000, -10.000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT., LREF 474.8000 IN., BREF 936.6430 IN., XMRP 1076.4800 IN., YMRP .0000 IN., ZMRP 400.0000 IN., SCALE .0150

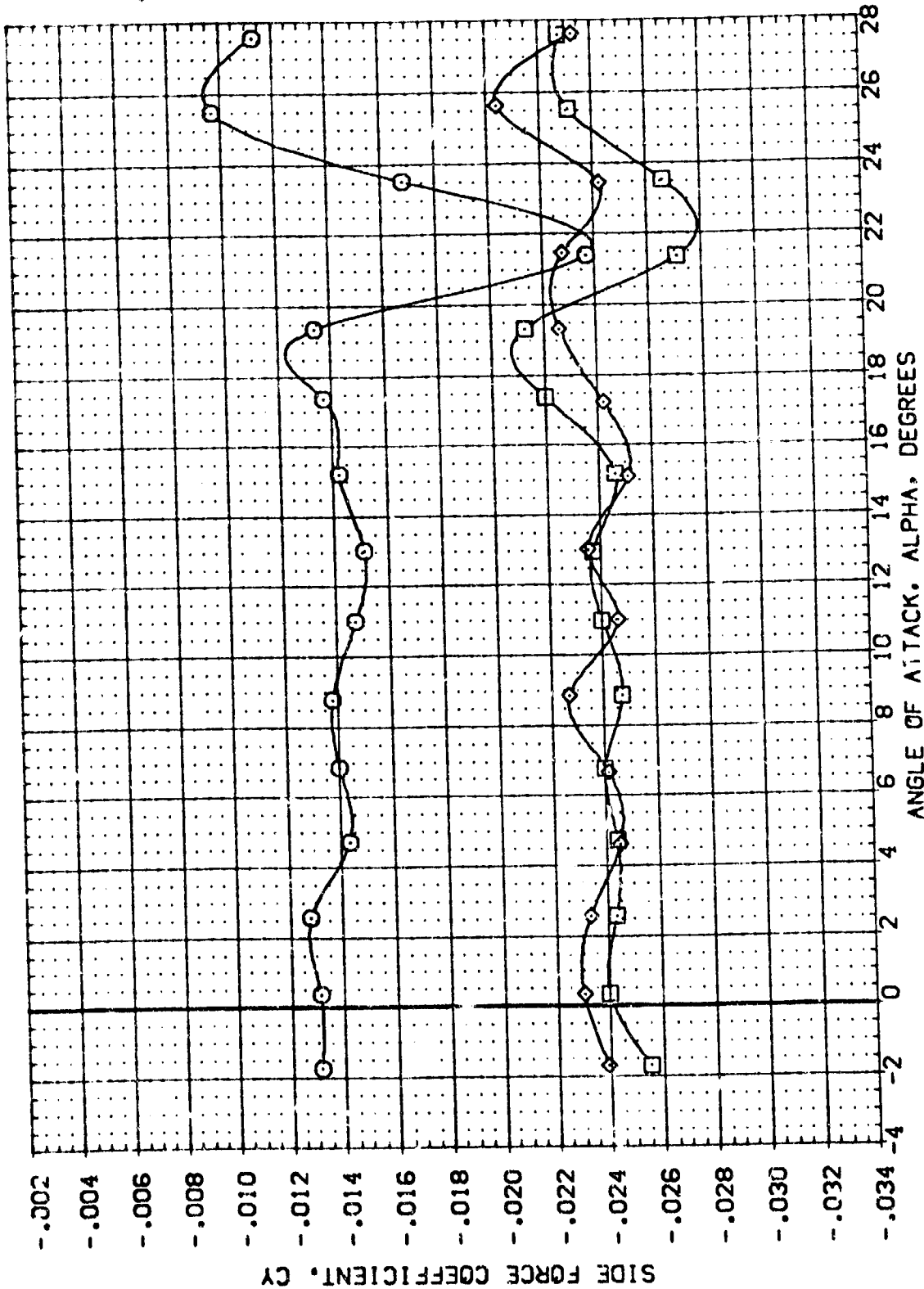


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(C)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ASTQ13)	AVES 66-706 DA43 B10 CS D7 P3 F4 V87E18 V585	-14.200	.000	54.500	-10.000	SREF 2690.0000
(ASTQ15)	AVES 66-706 DA43 B10 CS D7 P3 F4 V87E18 V585	-14.200	.000	24.500	-10.000	LREF 474.8000
				.000	-10.000	BREF 536.6800
						XPRP 1076.4800
						YPRP .0000
						ZPRP .0000
						SCALE 400.0000
						SCALE .0150

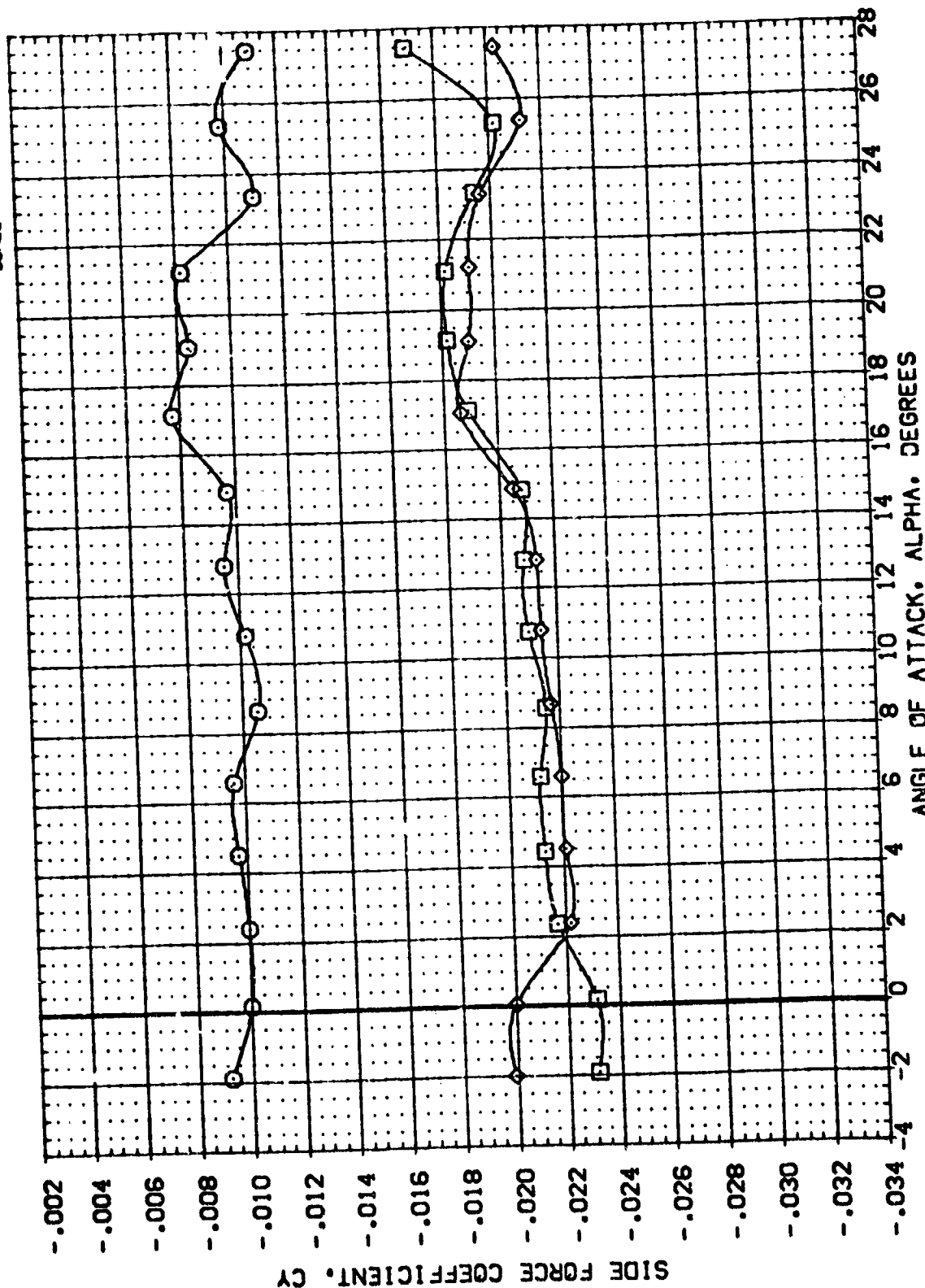


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(DJ)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A9T013)	AVES 66-706 DA43 B10 CS D7 M3 F4 V67E18 V595	-14.200	.000	54.900	-10.000	SREF 2690.0000 50.FT.
(A9T015)	AVES 66-706 DA43 B10 CS D7 M3 F4 V67E18 V595	-14.200	.000	24.900	-10.000	LREF 474.8000 IN.
(A9T016)	AVES 66-706 DA43 B10 CS D7 M3 F4 V67E18 V595	-14.200	.000	.000	-10.000	BREF 936.6800 IN.
						XTRP 1076.1800 IN.
						YTRP .0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

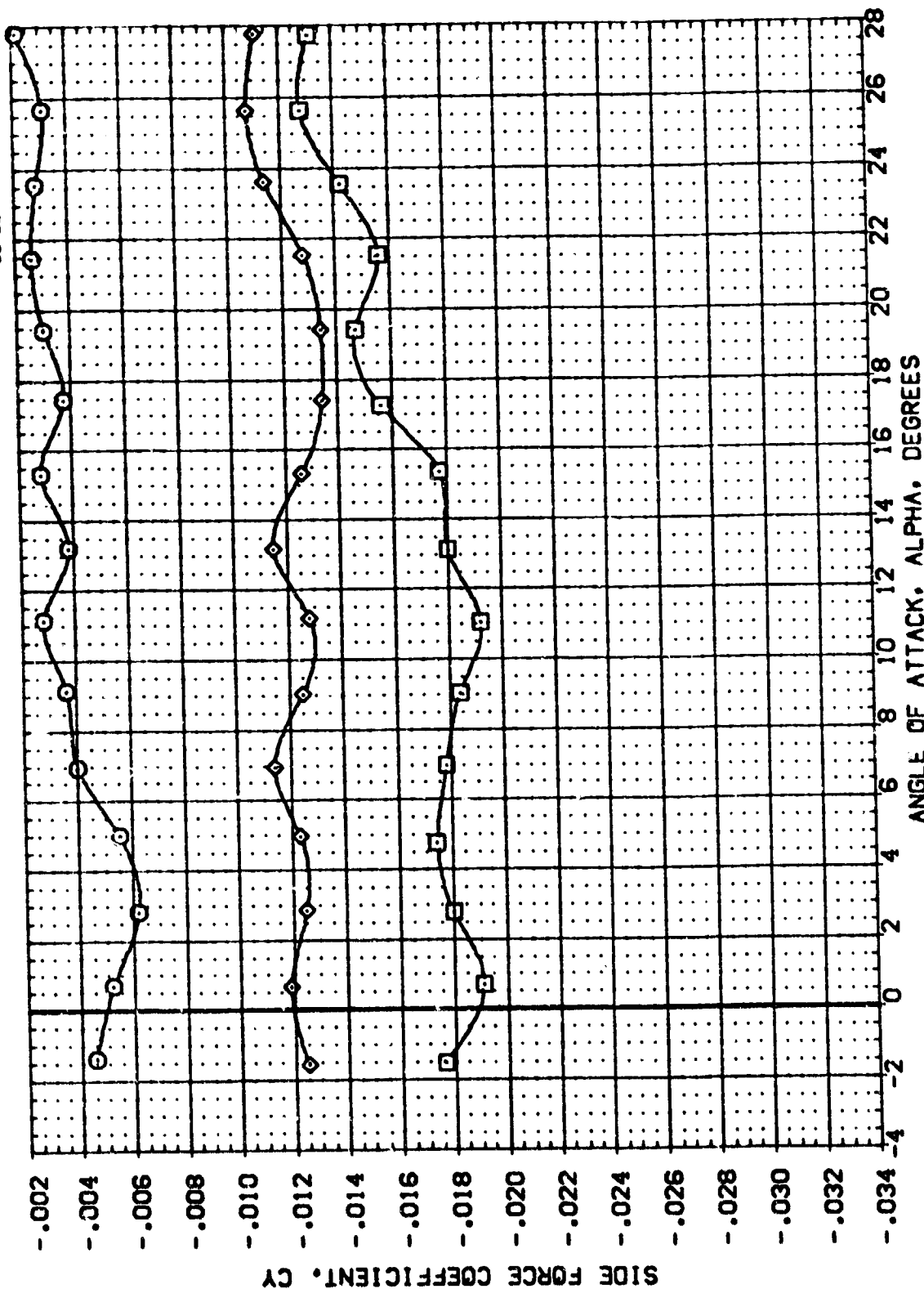


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPEED	RUDDER	REFERENCE INFORMATION
(A8T013)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V59S	-14.200	.000	54.900	-10.000	SREF 2650.0000 SQ. FT.
(A8T015)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V59S	-14.200	.000	24.900	-10.000	LREF 174.8000 IN.
(A8T016)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 V59S	-14.200	.000	.000	-10.000	BREF 336.6800 IN.
						XREF 1076.4000 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

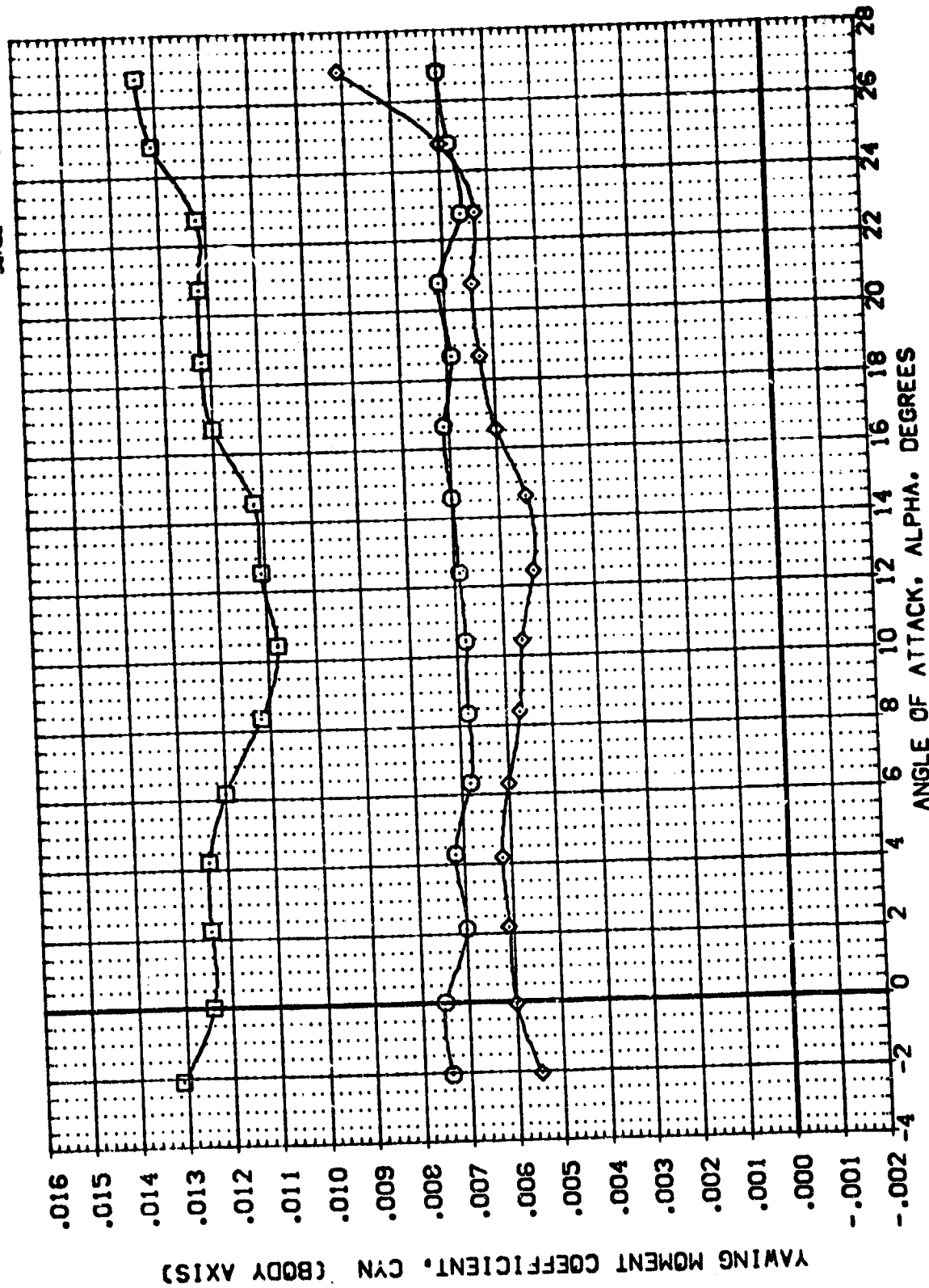


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(A)MACH = .60

DATA SET SYMBL. CONFIGURATION DESCRIPTION

DATA SET SYMBL.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOONK	RUDDER	REFERENCE INFORMATION
(ABT013)	AVES 66-706 0M43 B10 CS 07 PG F4 V87E18 VSRS	-14.200	.000	54.900	-10.000	SREF 2880.0000 SQ.FT.
(ABT015)	AVES 66-706 0M43 B10 CS 07 PG F4 V87E18 VSRS	-14.200	.000	24.900	-10.000	LREF 474.0000 IN.
(ABT016)	AVES 66-706 0M43 B10 CS 07 PG F4 V87E18 VSRS	-14.200	.000	.000	-10.000	SREF 528.0000 IN.
						XREF 1078.0000 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

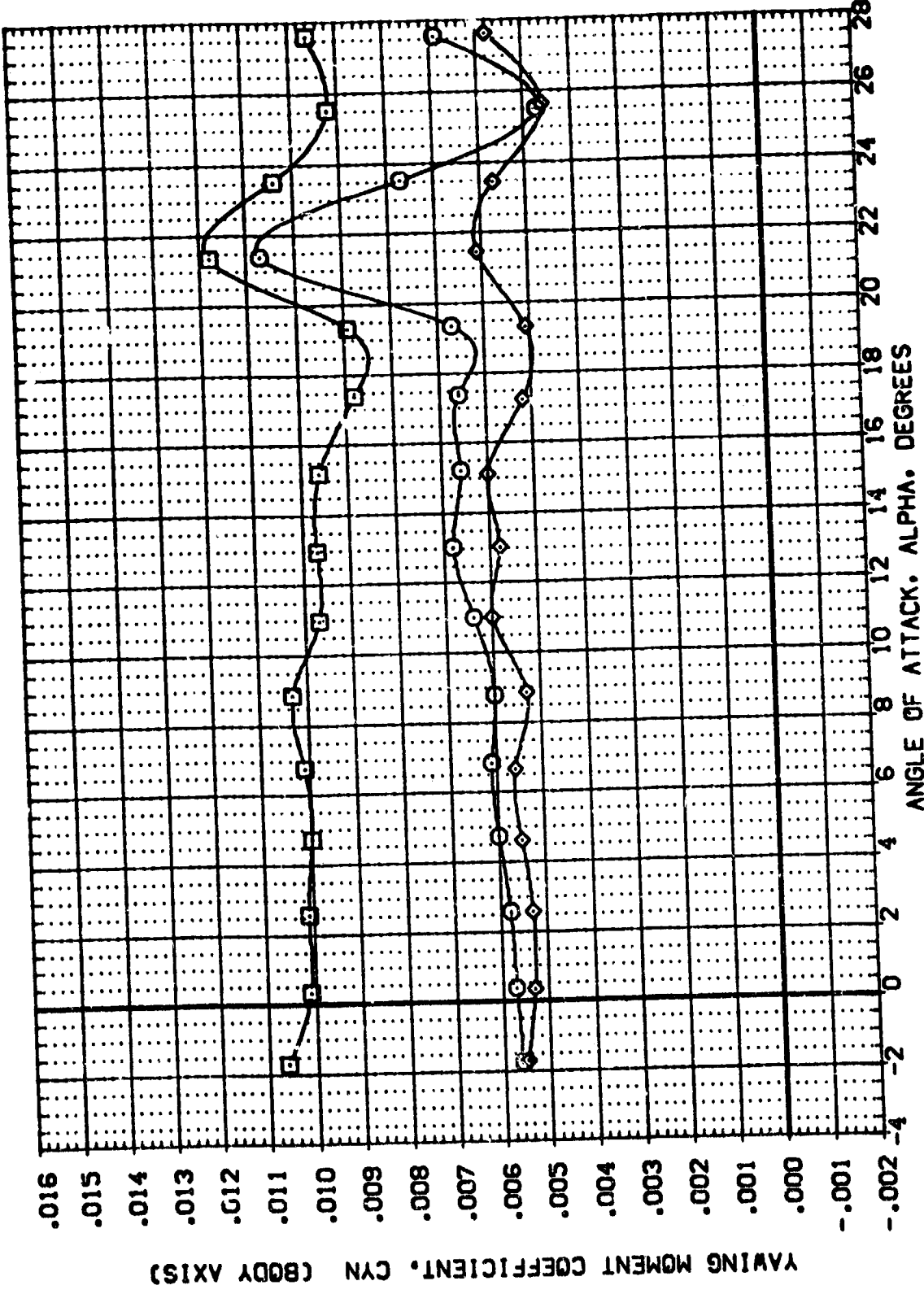


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(C)MACH = 1.20

This graph shows the yawing moment coefficient as a function of the angle of attack for a body with a circular cross-section. The vertical axis represents the yawing moment coefficient, ranging from -0.002 to 0.016. The horizontal axis represents the angle of attack in degrees, ranging from -4 to 28. Three data series are plotted: one with square markers, one with circle markers, and one with diamond markers. All three series show a similar trend, with the yawing moment coefficient increasing as the angle of attack increases, peaking around 26 degrees, and then decreasing. The square markers represent the highest values, followed by the circle markers, and then the diamond markers.

Angle of Attack (Degrees)	Yawing Moment Coefficient (Square Markers)	Yawing Moment Coefficient (Circle Markers)	Yawing Moment Coefficient (Diamond Markers)
-2	0.0080	0.0045	0.0040
0	0.0082	0.0048	0.0042
2	0.0084	0.0050	0.0044
4	0.0086	0.0052	0.0046
6	0.0088	0.0054	0.0048
8	0.0090	0.0056	0.0050
10	0.0092	0.0058	0.0052
12	0.0094	0.0060	0.0054
14	0.0096	0.0062	0.0056
16	0.0098	0.0064	0.0058
18	0.0100	0.0066	0.0060
20	0.0102	0.0068	0.0062
22	0.0104	0.0070	0.0064
24	0.0106	0.0072	0.0066
26	0.0108	0.0074	0.0068
28	0.0110	0.0076	0.0070

$$M_{\infty} = 1.50$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEF/P	ELEVON	SPEEDK	RUDDER	REFERENCE INFORMATION
(AB70:3)	APES 66-706 0M3 B10 CS D7 M3 F4 V87E18 VS85	-14.200	.000	54.500	-10.000	SREF 2650.0000
(AB70:5)	APES 66-706 0M3 B10 CS D7 M3 F4 V87E18 VS85	-14.200	.000	24.500	-10.000	LREF 474.8000
(AB70:6)	APES 66-706 0M3 B10 CS D7 M3 F4 V87E18 VS85	-14.200	.000	.000	-10.000	BREF 928.5800
						VMREF 1076.4800
						VMREF 400.0000
						VMREF .0150
						SCALE

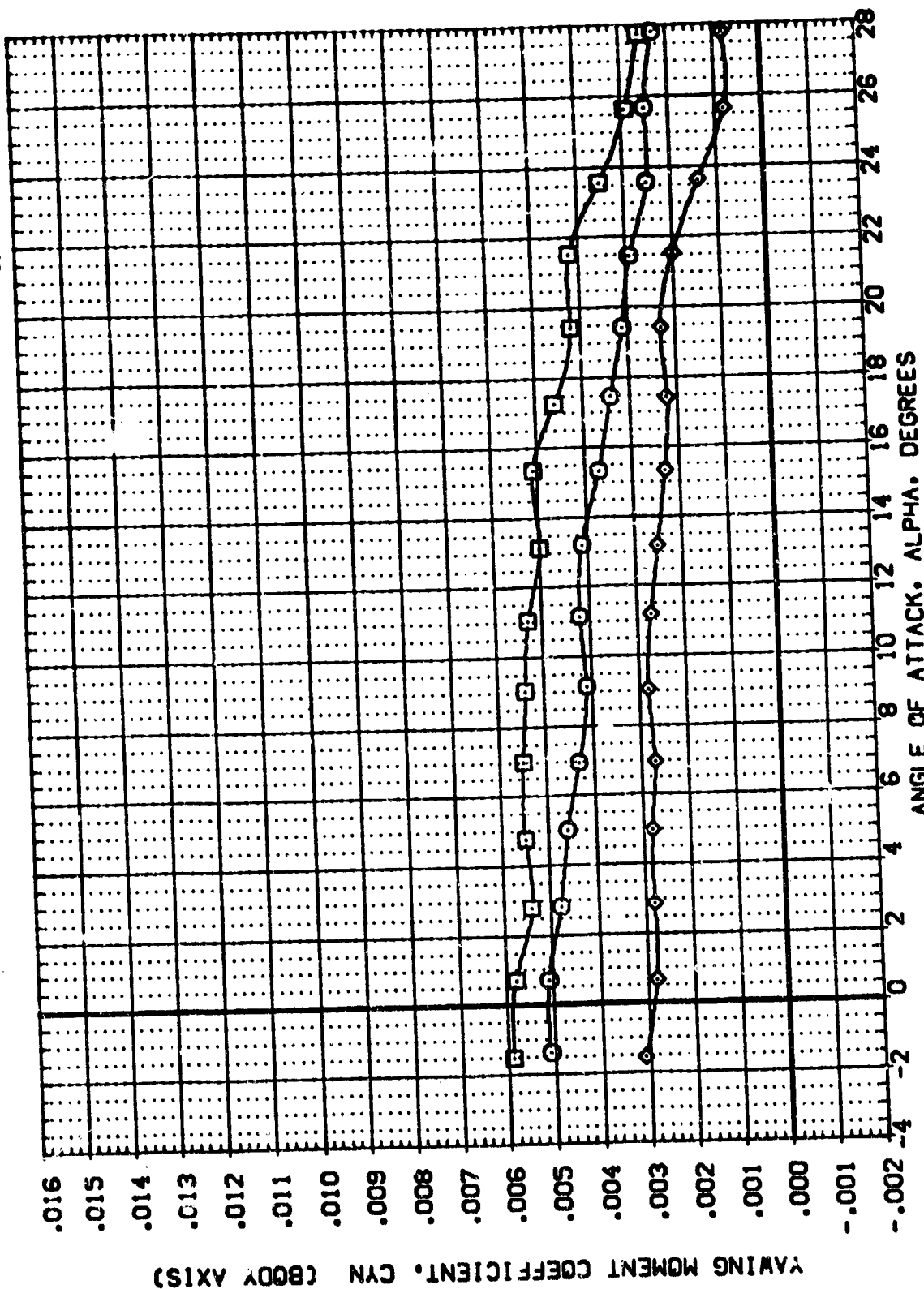


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDUSK	RUDDER	REFERENCE INFORMATION
(AST013)	AVES 88-708 0443 B10 C3 D7 M3 F4 V87E18 V5K3	-14.200	.000	54.500	-10.000	SREF 2650.0000 50.FT.
(AST015)	AVES 88-708 0443 B10 C3 D7 M3 F4 V87E18 V5K3	-14.200	.000	54.500	-10.000	LREF 474.8000 IN.
(AST016)	AVES 88-708 0443 B10 C3 D7 M3 F4 V87E18 V5K3	-14.200	.000	54.500	-10.000	SREF 536.6800 IN.
						SPRP 1076.4800 IN.
						TRRP 400.0000 IN.
						SCALE .0150

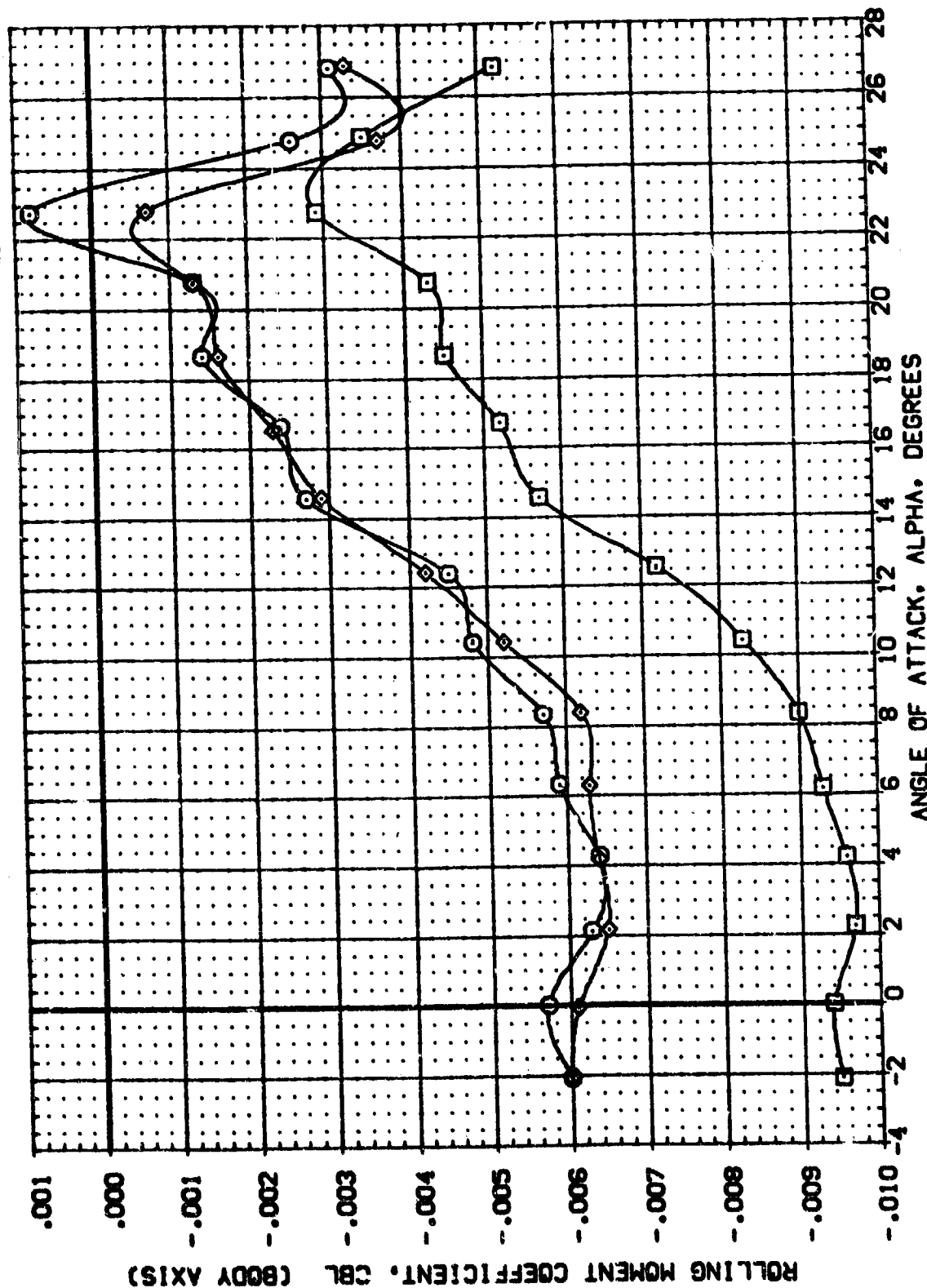


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(A)MACH = .60

DATA SET SYMBOL
 (ABT013)
 (ABT015)
 (ABT016)

CONFIGURATION DESCRIPTION

AVES 66-706 DM3 B10 CS 07 H3 F4 V87E18 VSR5
 AVES 66-706 DM3 B10 CS 07 H3 F4 V87E18 VSR5
 AVES 66-706 DM3 B10 CS 07 H3 F4 V87E18 VSR5

BODYP ELEVON SPEEDK RUDDER
 -14.200 .000 54.500 -10.000
 -14.200 .000 24.500 -10.000
 -14.200 .000 .000 -10.000

REFERENCE INFORMATION
 SREF 2690.0000 90.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XREF 1076.4800 IN.
 YREF .0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150 SCALE

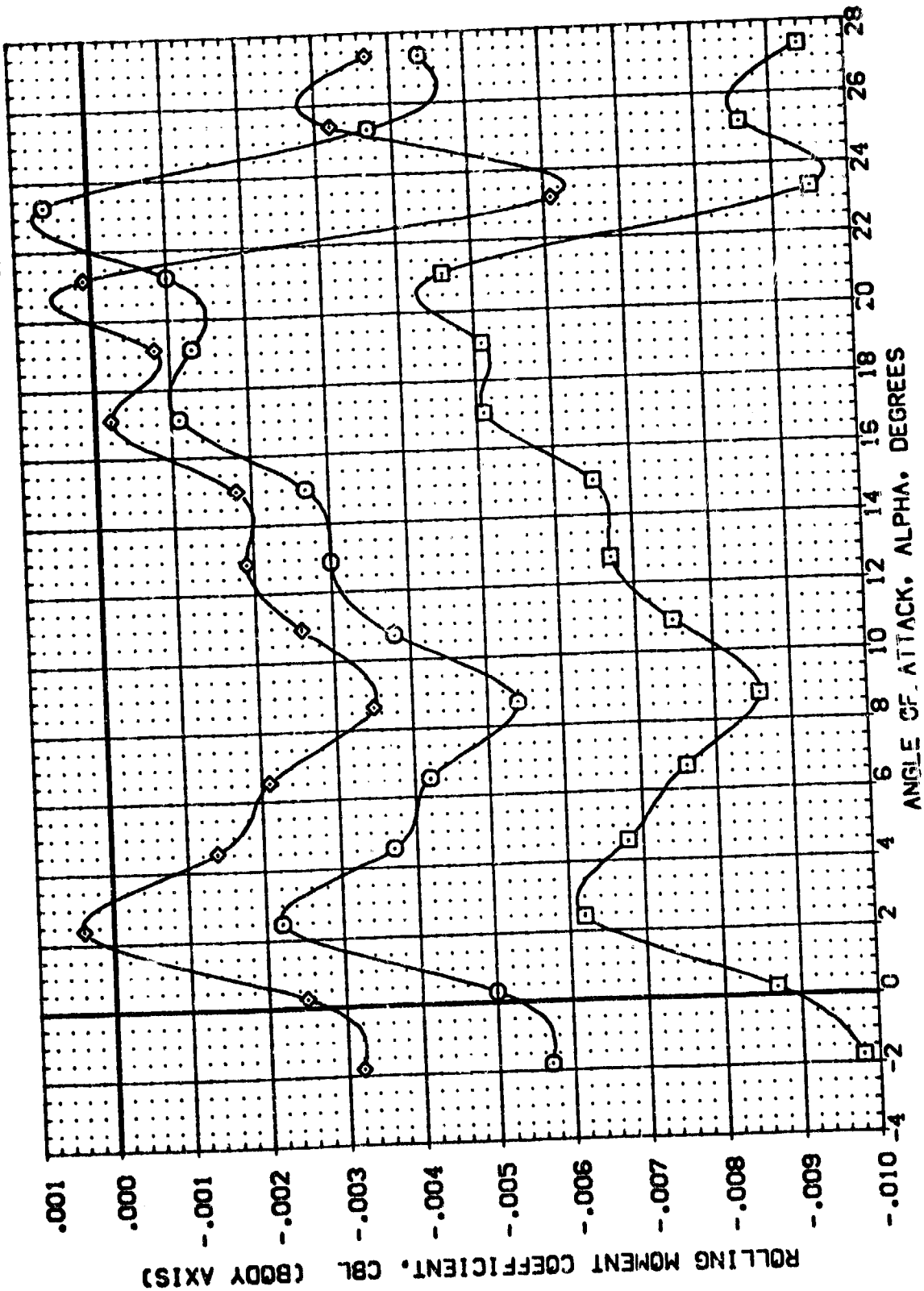


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(B)MACH = .90

DATA SET SYMBL.	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
{ABT013}	AVES 66-706 DM43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	54.900	-10.000	SREF 2680.0000 SQ.FT.
{AST015}	AVES 66-706 DM43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	24.900	-10.000	LREF 474.8000 IN.
{ABT016}	AVES 66-706 DM43 B10 CS D7 H3 F4 V87E18 V5K5	-14.200	.000	.000	-10.000	BREF 536.8000 IN.
						YREF 1076.1800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

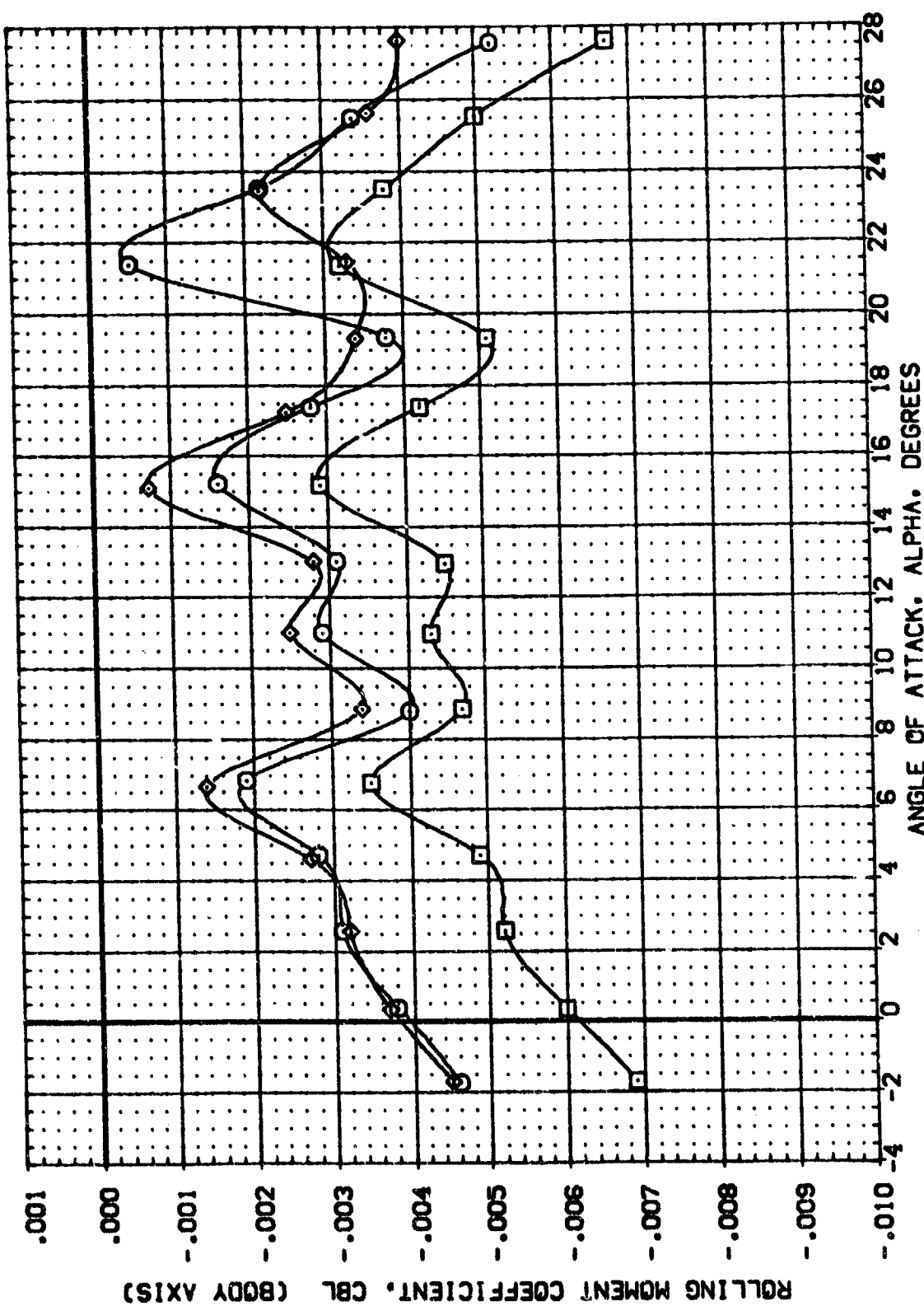


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(C)MACH = 1.20

DATA SET SYMBOL
 T87013
 T87015
 T87016

CONFIGURATION DESCRIPTION
 ASES 66-706 0A43 810 CS 07 H3 F4 V87E18 V505
 ASES 66-706 0A43 810 CS 07 H3 F4 V87E18 V505
 ASES 66-706 0A43 810 CS 07 H3 F4 V87E18 V505

BOOFUP
 -14.200
 -14.200
 -14.200

ELEVON

SPOBRK

RUDDER

REFERENCE INFORMATION
 SREF 2650.0000 50.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 YPRP 1076.4800 IN.
 ZPRP 400.0000 IN.
 SCALE .0150

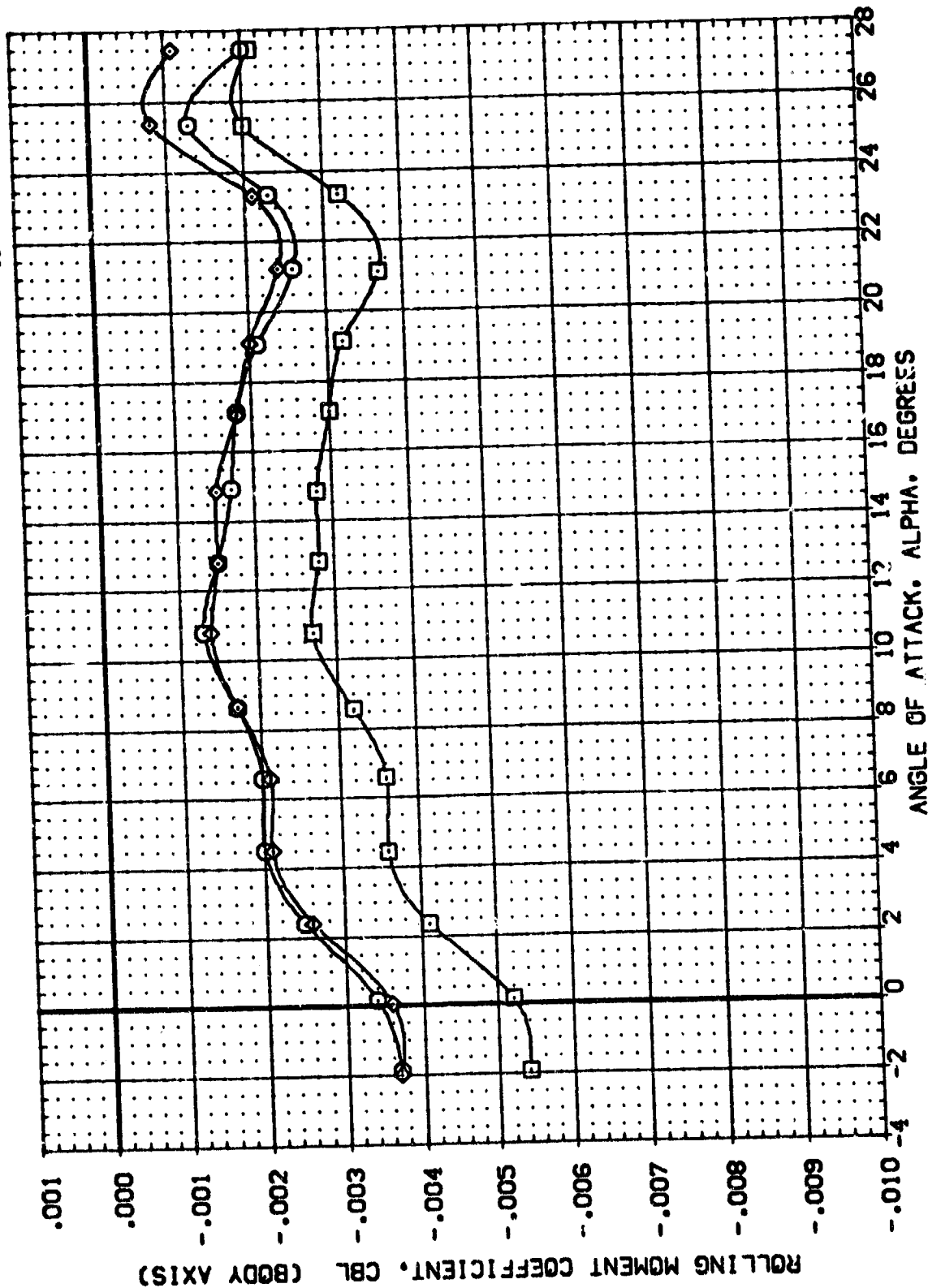


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(D)MACH = 1.50

DATA SET SYMBOL: (ABT013) (ABT015) (ABT016)

CONFIGURATION DESCRIPTION: ASES 66-705 DM13 B10 CS 07 M3 F4 187E18 VSRS ASES 66-705 DM13 B10 CS 07 M3 F4 187E18 VSRS ASES 66-705 DM13 B10 CS 07 M3 F4 187E18 VSRS

BODFP ELEVON SPOBRK RUDDER REFERENCE INFORMATION

BODFP	ELEVON	SPOBRK	RUDDER	REF	IN.
-14.200	.000	54.900	-10.000	2690.0100	26.90
-14.200	.000	24.900	-10.000	174.8010	17.48
-14.200	.000	.000	-10.000	336.8810	33.69
				1076.4800	107.65
				400.0070	40.00
				.0150	1.50

SCALE

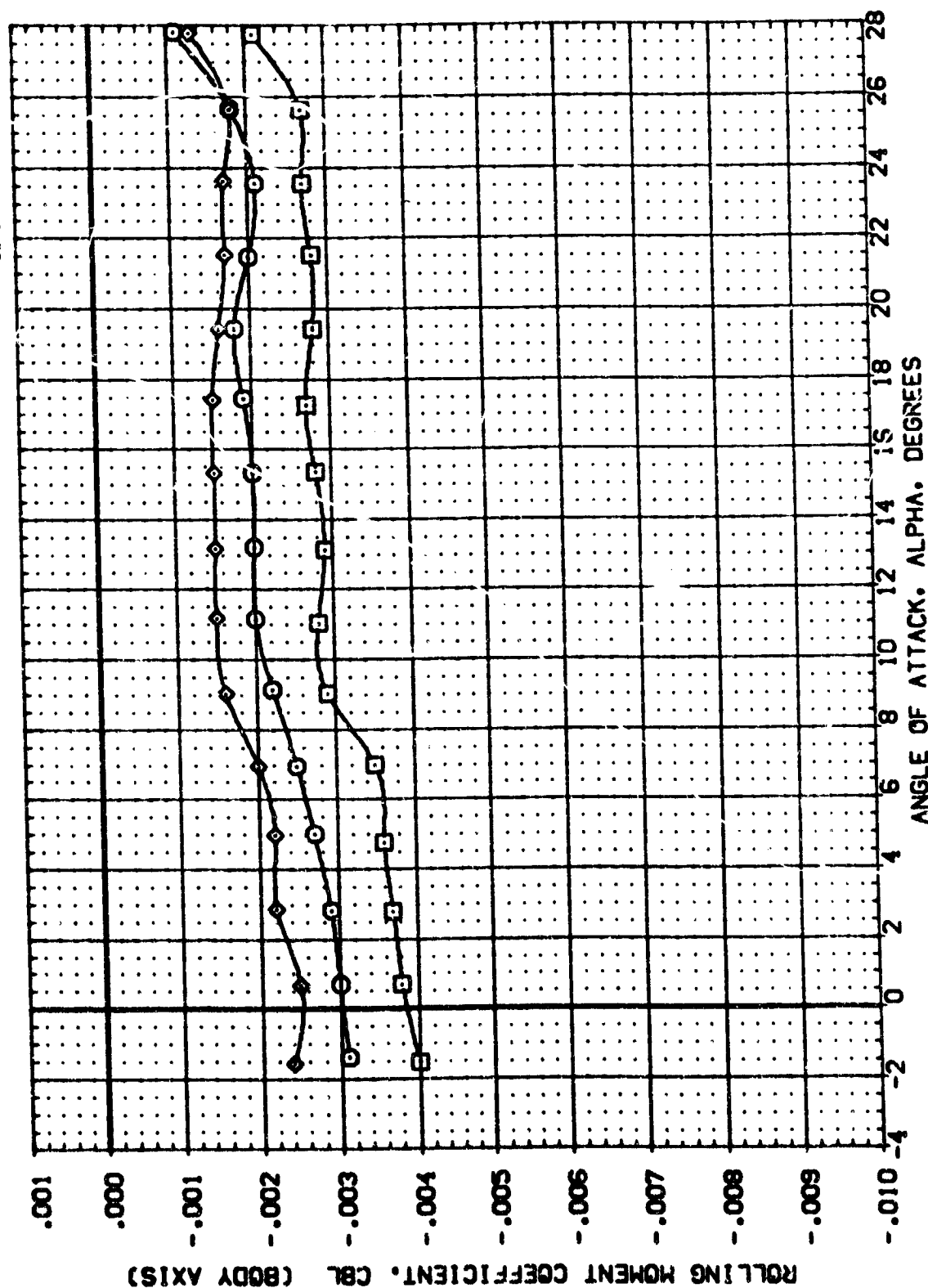


FIG. 23 SPEED BRAKE / RUDDER DEFLECTED

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDER	REFERENCE INFORMATION
[ABT004]	APES 66-706 0413 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	.000	54.500	.000	SREF 2650.0000
[ABT005]	APES 66-706 0413 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	10.000	54.500	.000	LREF 474.8000
[ABT006]	APES 66-706 0413 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	-20.000	54.500	.000	BREF 936.8000
[ABT007]	APES 66-706 0413 B10 CS D7 M3 F4 W87E18 VSRS	-14.200	-40.000	54.500	.000	XREF 1076.8000
[ABT008]	DATA NOT AVAILABLE					YREF .0000
						ZREF 407.0000
						SCALE .0150

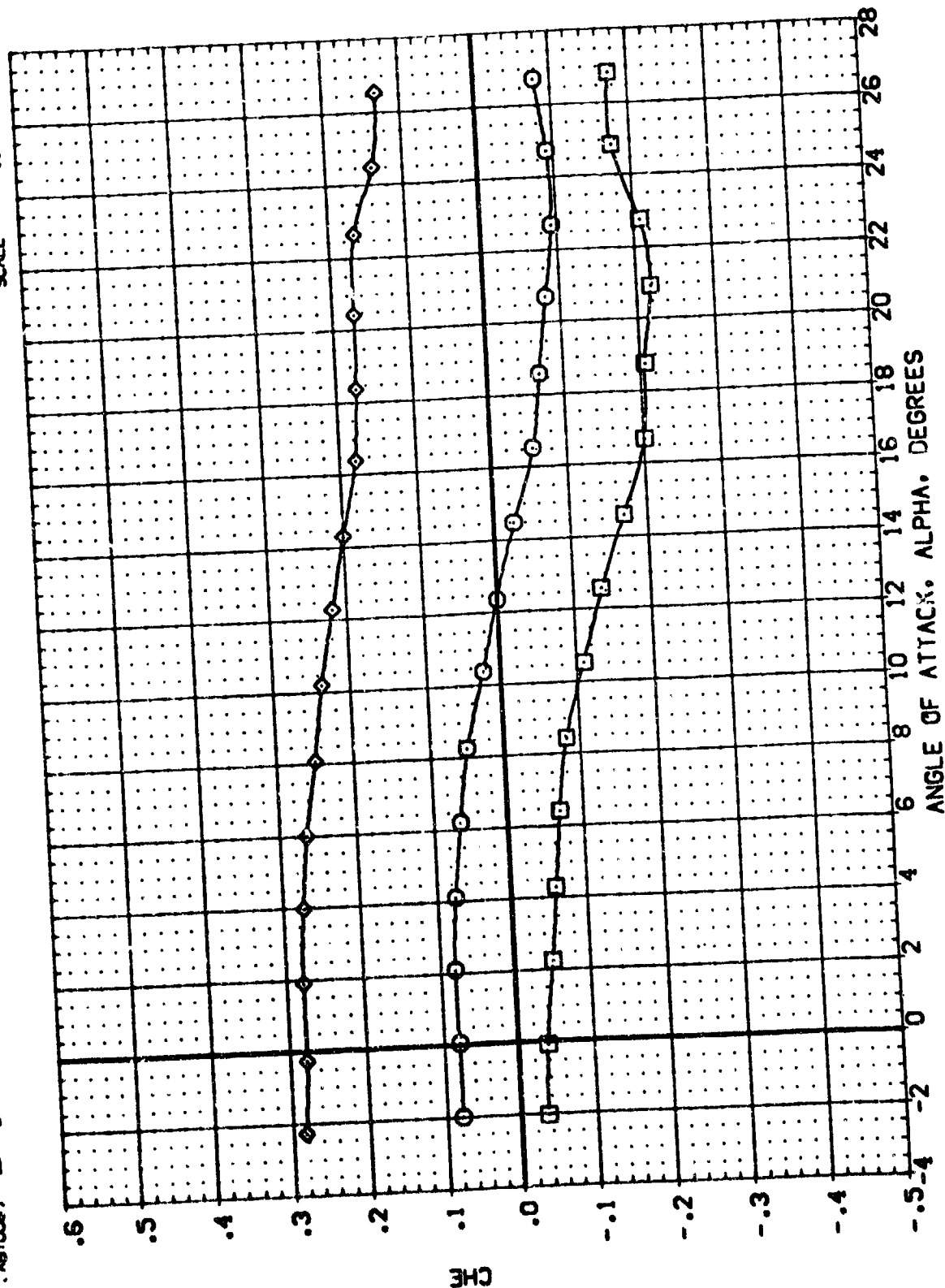


FIG. 24 ELEVON HINGE MOMENTS

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	SPODBK	RUDDER	REFERENCE INFORMATION
[AB1004]	AVES 66-706 CA43 B10 CS D7 H3 F4 V67E18 V5K5	-14.200	.000	54.500	.000	SREF 2680.0000 50. FT.
[AB1005]	AVES 66-706 CA43 B10 CS D7 H3 F4 V67E18 V5K5	-14.200	10.000	54.500	.000	LREF 474.8000 1. IN.
[AB1022]	AVES 66-706 CA43 B10 CS D7 H3 F4 V67E18 V5K5	-14.200	-20.000	54.500	.000	BREF 936.6000 1. IN.
[AB1006]	AVES 66-706 CA43 B10 CS D7 H3 F4 V67E18 V5K5	-14.200	-40.000	54.500	.000	YREF 1076.4000 1. IN.
						ZREF 400.0000 1. IN.
						SCALE .0150

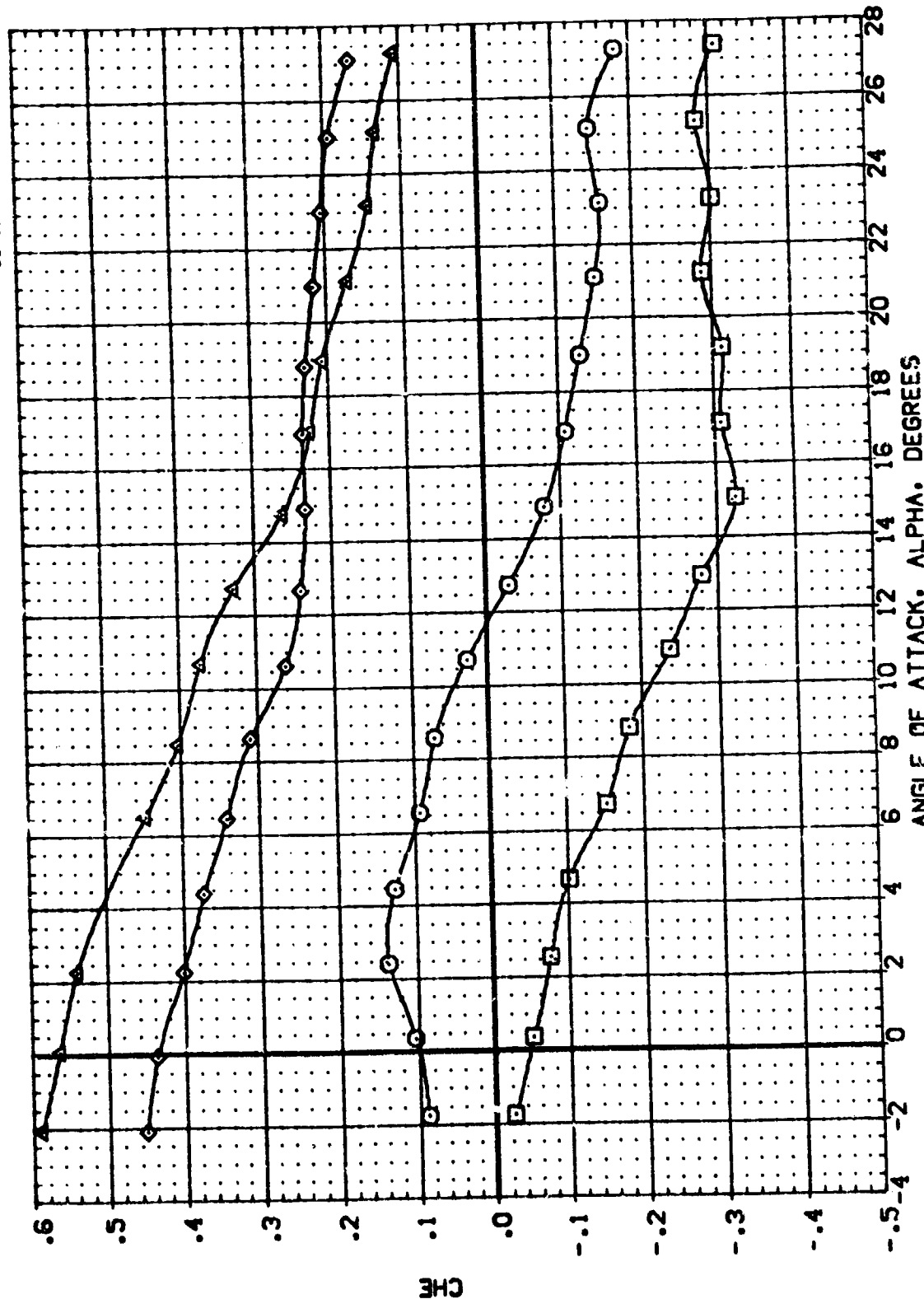


FIG. 24 ELEVON HINGE MOMENTS

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABT004)	AVES 66-706 DA43 B10 CS D7 M3 F4 V37E18 VSRS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(ABT005)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(ABT022)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	BREF 936.6800 IN.
(ABT023)	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP .0150 SCALE

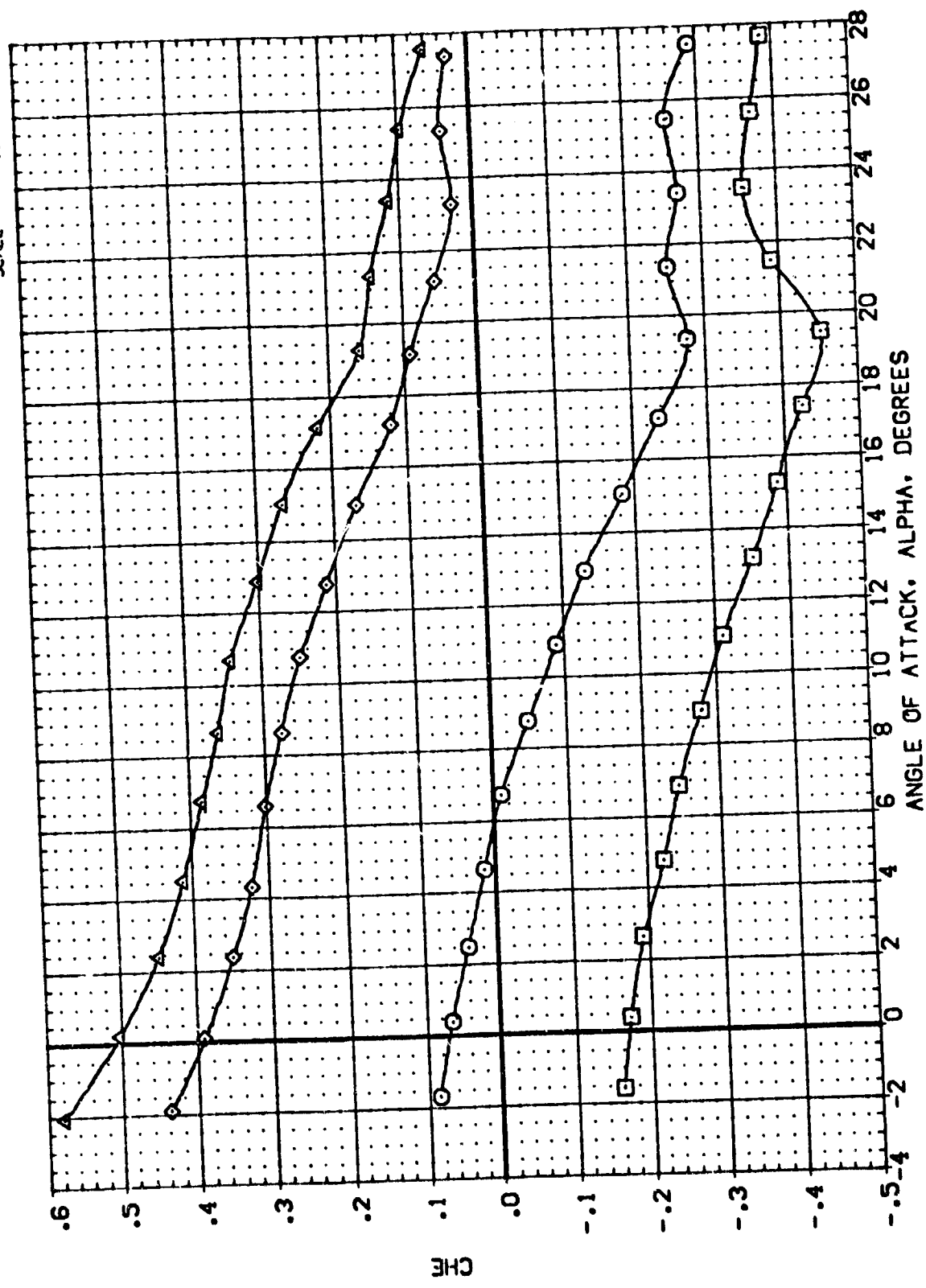


FIG. 24 ELEVON HINGE MOMENTS

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOUFLP	ELEVON	SPOBRK	RUDER	REFERENCE INFORMATION
[ABT004]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	SREF. 2650.0000 50.FT.
[ABT005]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	10.000	54.500	.000	LREF. 474.8000 IN.
[ABT022]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-20.000	54.500	.000	BREF. 936.6800 IN.
[ABT006]	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	-40.000	54.500	.000	XREF. 1076.4800 IN.
						YREF. .0000 IN.
						ZREF. 400.0000 IN.
						SCALE .0150

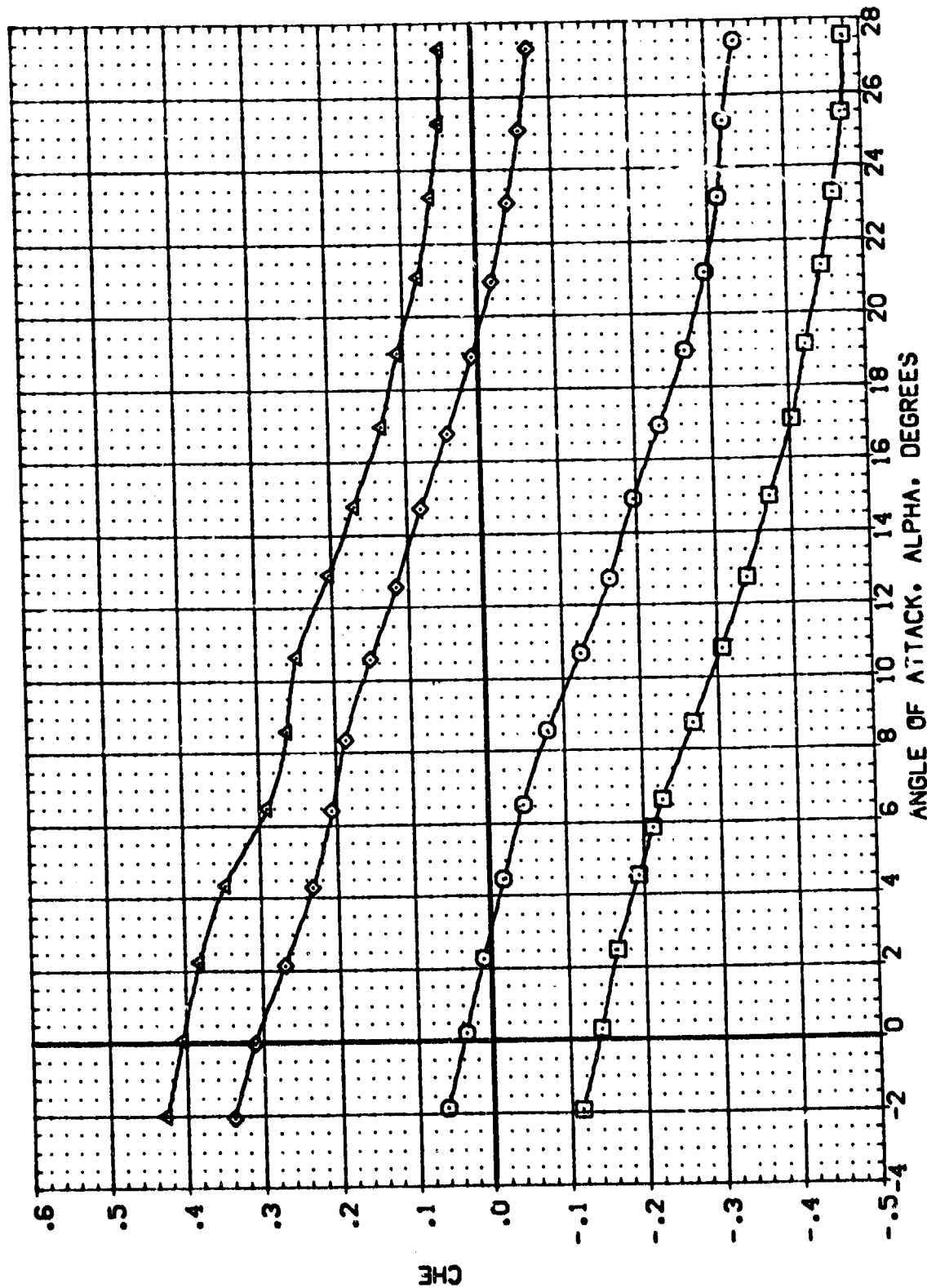


FIG. 24 ELEVON HINGE MOMENTS

(D)MACH = 1.50

DATA SET SYMBOL: [ABT004] [ABT005] [ABT022] [ABT036]

CONFIGURATION DESCRIPTION: AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AYES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOF LP ELEVON SPOBRK RUDDER REFERENCE INFORMATION

BOOF LP	ELEVON	SPOBRK	RUDDER	REF	SO.FT.
-14.200	.000	54.500	.000	2650.0000	IN.
-14.200	10.000	54.500	.000	174.8000	IN.
-14.200	-20.000	54.500	.000	936.6800	IN.
-14.200	-40.000	54.500	.000	1076.4800	IN.
				400.0000	IN.
				.0150	SCALE

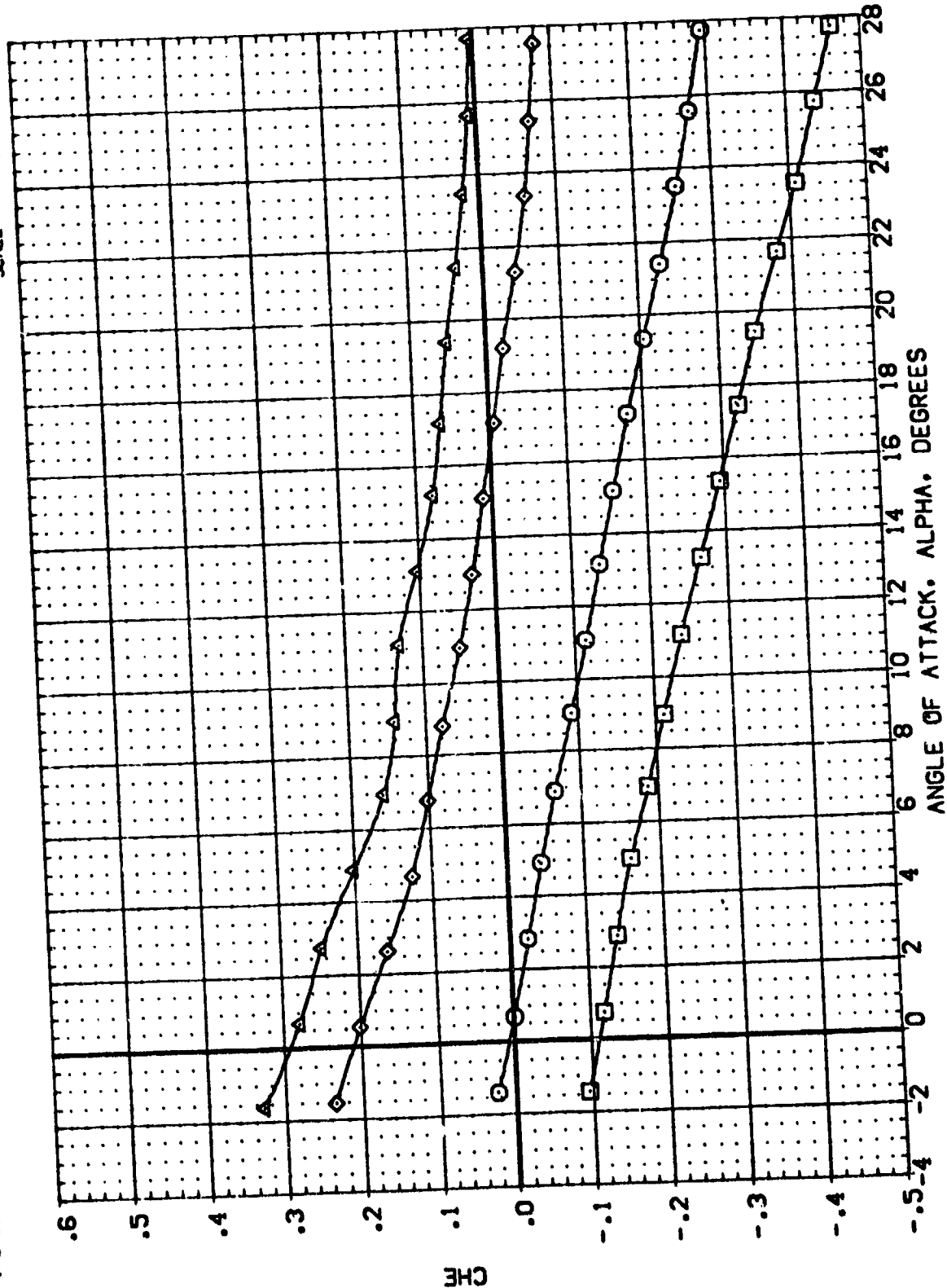


FIG. 24 ELEVON HINGE MOMENTS

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODFP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
[AB1804]	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	.000	54.500	.000	SREF 2650.0000 92. FT.
[AB1805]	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	10.000	54.500	.000	LREF 474.8000 IN.
[AB1822]	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	-20.000	54.500	.000	BREF 936.6800 IN.
[AB1F06]	AKES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VS95	-14.200	-40.000	54.500	.000	YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

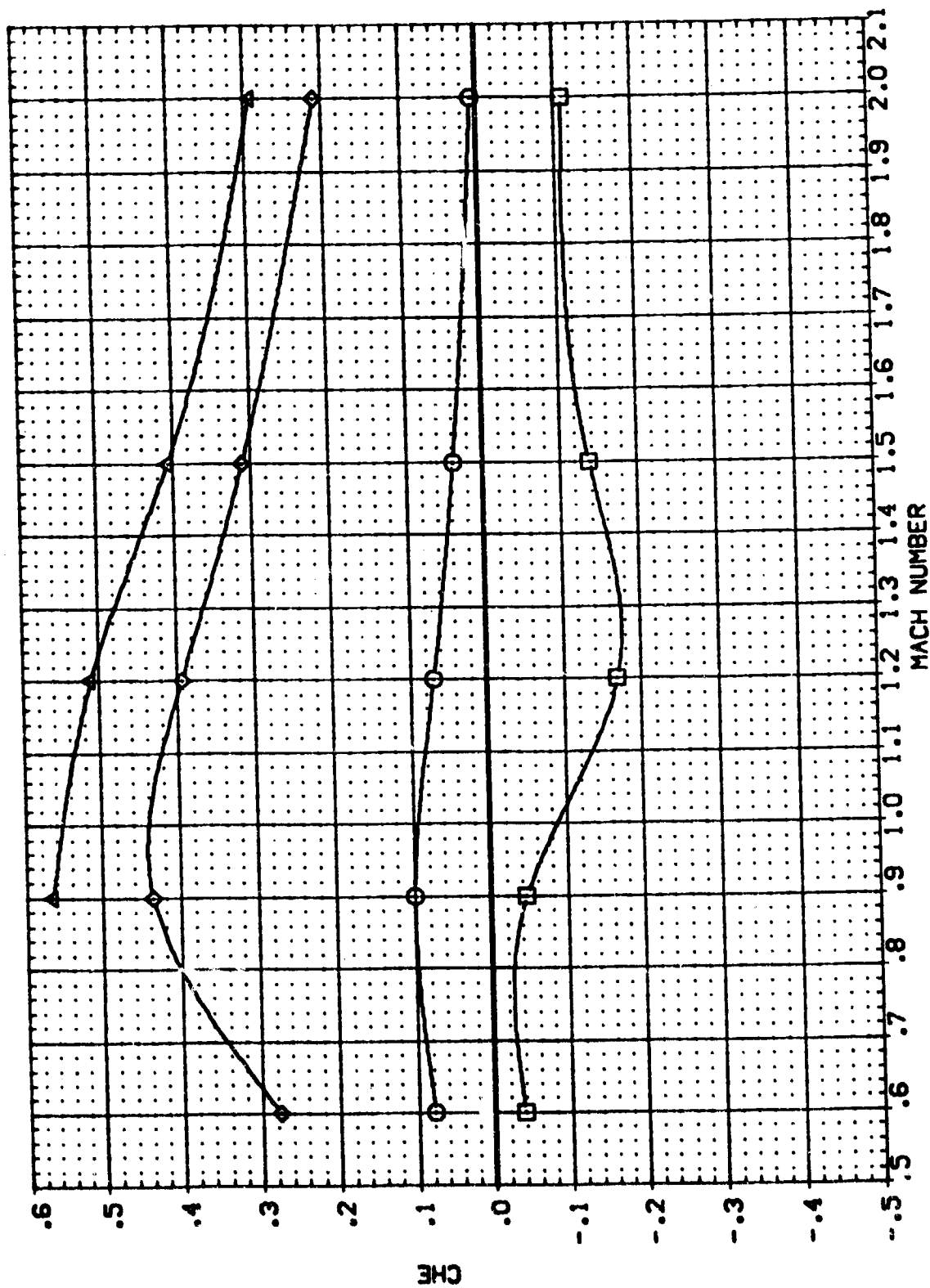


FIG. 24 ELEVON HINGE MOMENTS

(α)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RLODER	REFERENCE INFORMATION
(AGT804)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(AGT805)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
(AGT822)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	-20.000	54.900	.000	SREF 536.6800 IN.
(AGT806)	AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 V5K5	-14.200	-40.000	54.900	.000	XTRP 1076.4800 IN.
						YTRP 400.0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

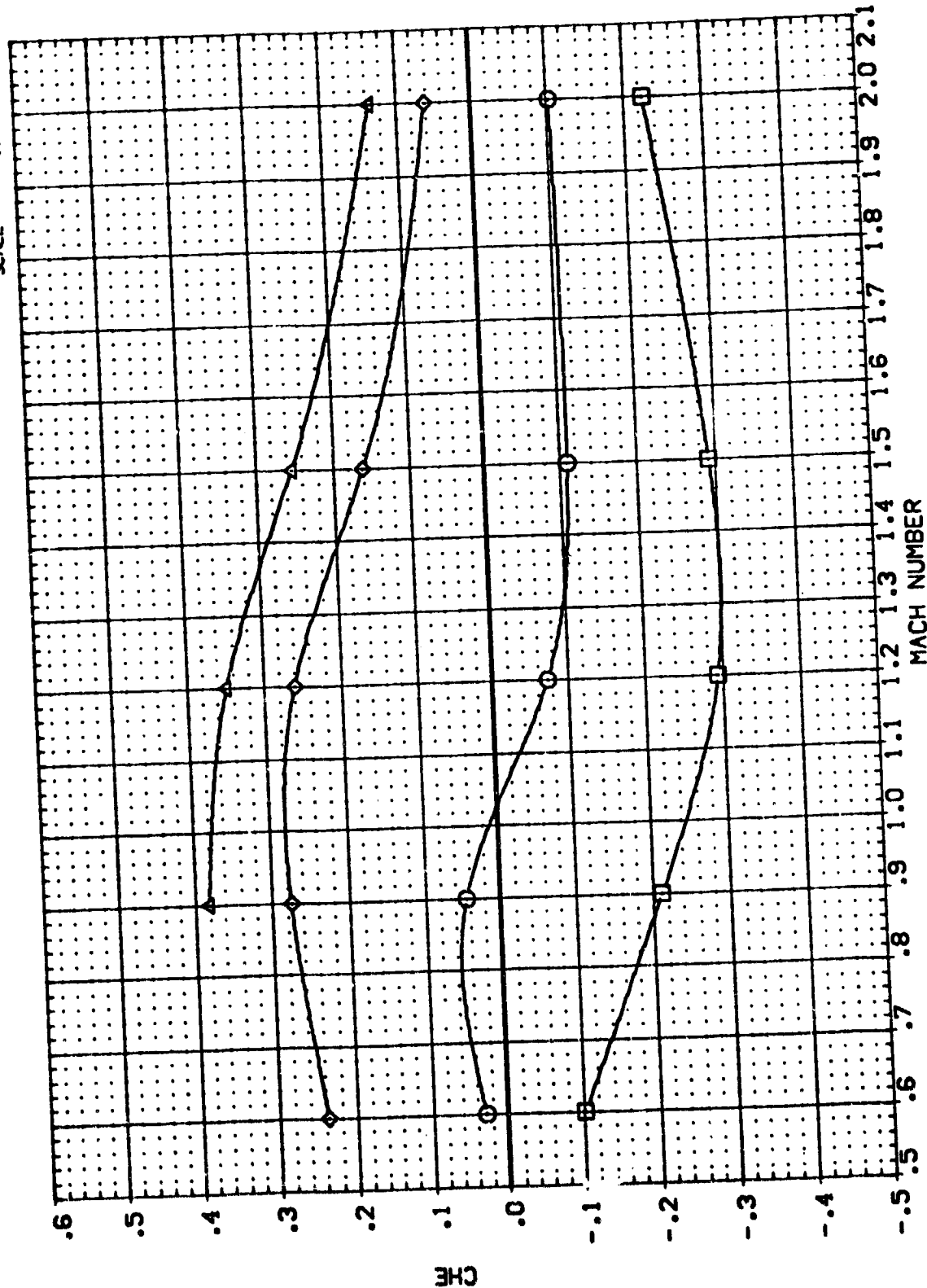


FIG. 24 ELEVON HINGE MOMENTS

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[ABT804]	AMES 66-706 0A43 B10 CS D7 PG F4 V87E18 V595	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
[ABT805]	AMES 66-706 0A43 B10 CS D7 PG F4 V87E18 V595	-14.200	10.000	54.900	.000	LREF 474.8000 IN.
[ABT822]	AMES 66-706 0A43 B10 CS D7 PG F4 V87E18 V595	-14.200	-20.000	54.900	.000	BREF 938.6000 IN.
[ABT806]	AMES 66-706 0A43 B10 CS D7 PG F4 V87E18 V595	-14.200	-40.000	54.900	.000	YREF 1076.4000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

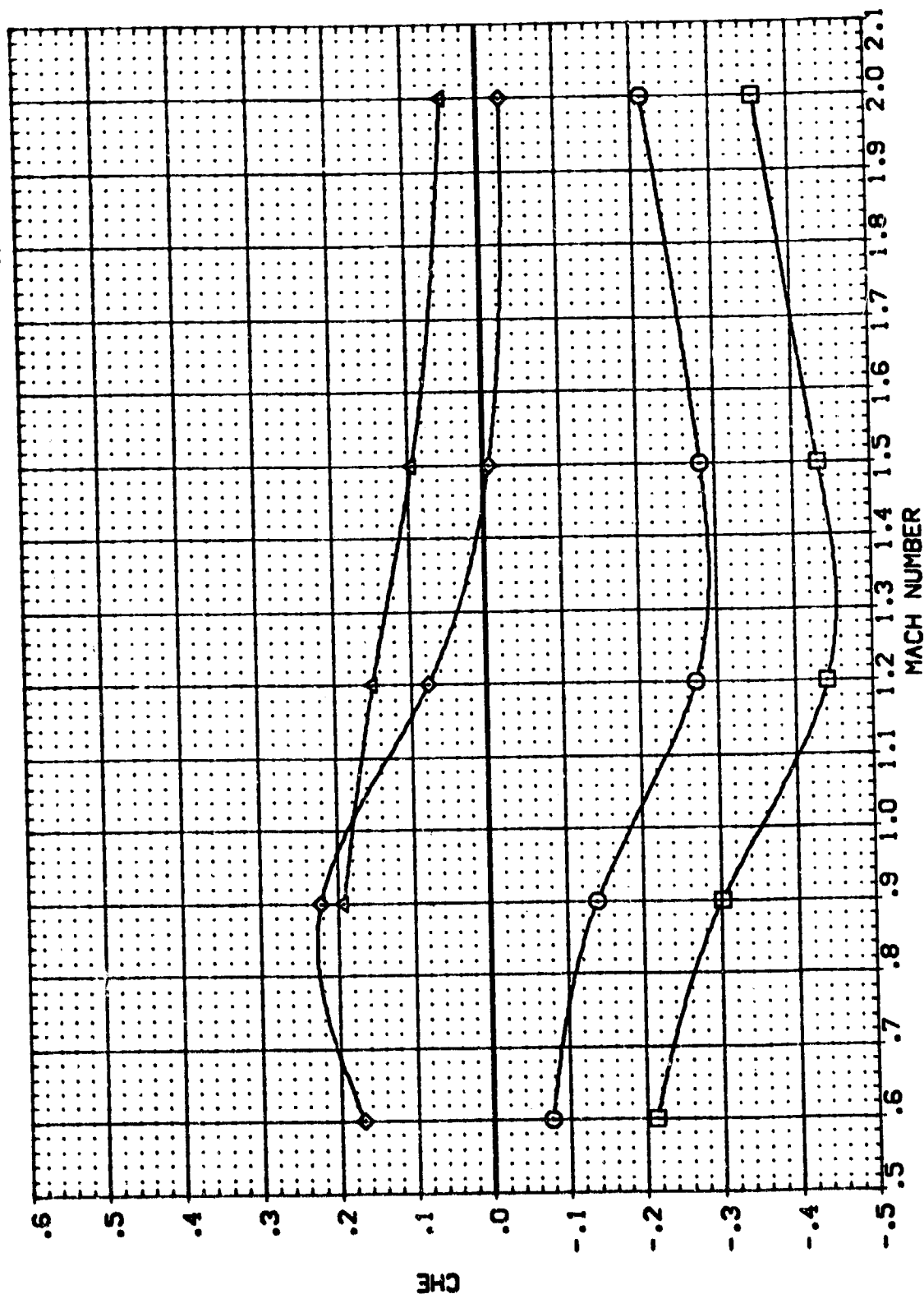


FIG. 24 ELEVON HINGE MOMENTS

(C)ALPHA = 20.00

DATA SET SYMBOL: (ABTC05)
 (ABTC22)
 (ABTC06)

CONFIGURATION DESCRIPTION
 AVES 66-705 CM3 B10 CS 07 K3 F4 V87E18 V585
 AVES 66-705 CM3 B10 CS 07 K3 F4 V87E18 V585
 DATA NOT AVAILABLE

BOOF LP ELEVON SPOBRK RUDDER
 -14.200 10.000 54.900 .000
 -14.200 -20.000 54.900 .000
 -14.200 -40.000 54.900 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XTRP 1076.4800 IN.
 YTRP 400.0000 IN.
 ZTRP 400.0000 IN.
 SCALE .0150

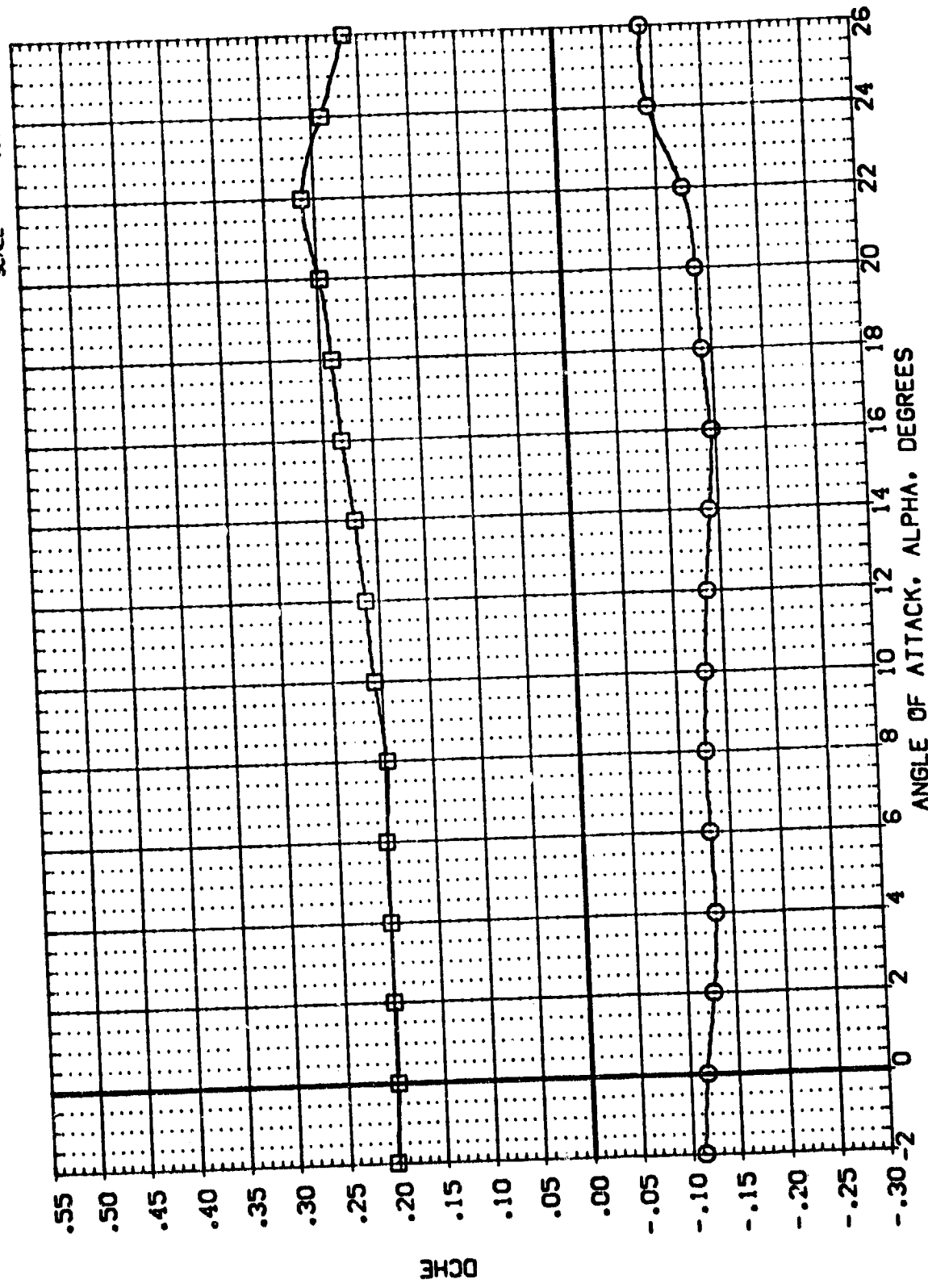


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(A)MACH = .60

DATA SET SYMBOL
 (ABT025)
 (ABT022)
 (ABT026)

CONFIGURATION DESCRIPTION
 AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS
 AVES 66-705 DA43 B10 CS D7 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRK RUDDER
 -14.200 10.000 .000
 -14.200 -20.000 .000
 -14.200 -40.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.000
 LREF 474.8000 10.000
 YREF 936.6800 10.000
 YARP 1076.4800 10.000
 ZARP 400.0000 10.000
 SCALE .0150

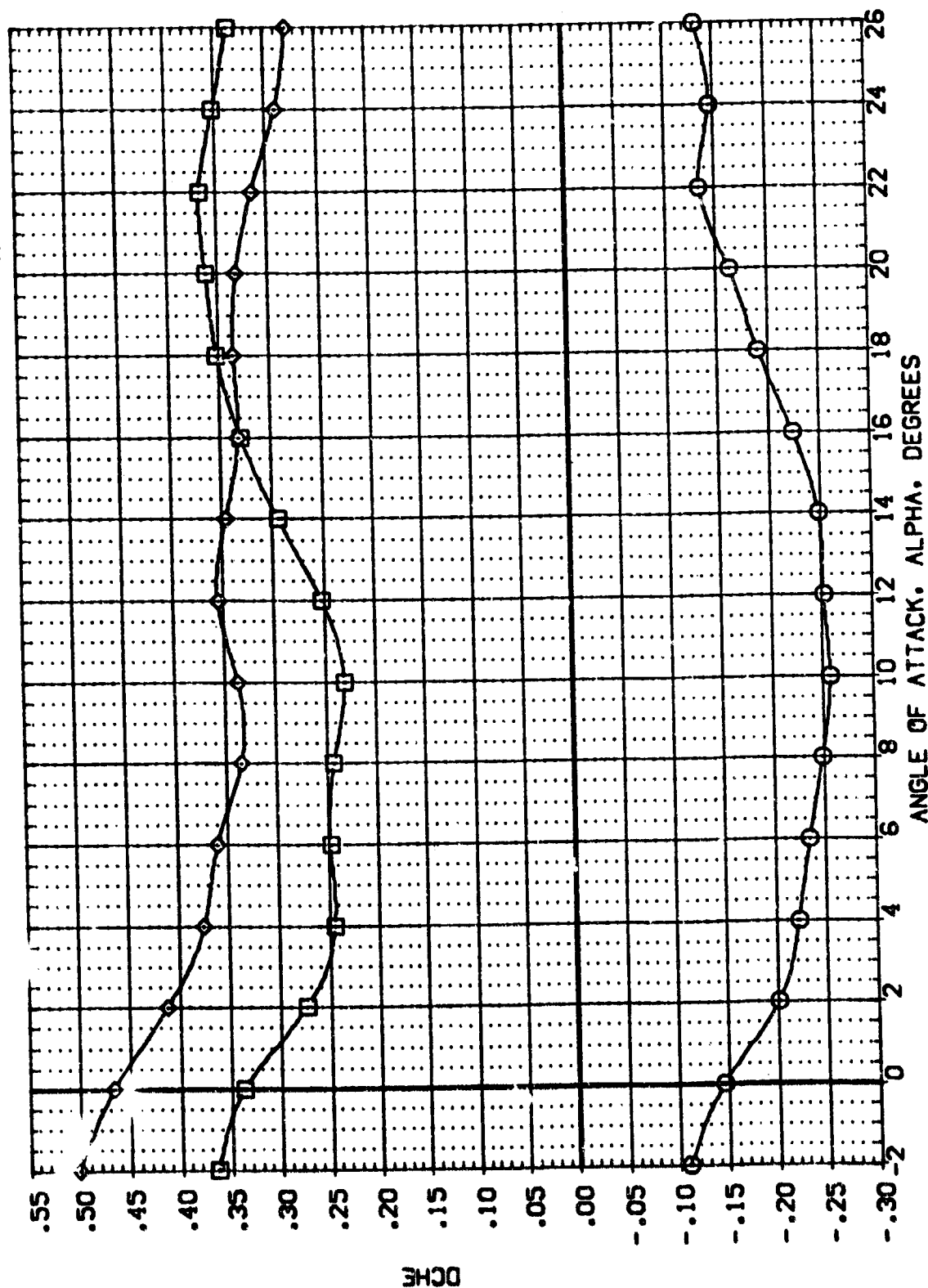


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(B)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABTCCS)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 VSRS	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(ABTCC2)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 VSRS	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(ABTCC6)	AVES 66-706 0A43 B10 CS D7 PG F4 V87E18 VSRS	-14.200	-40.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

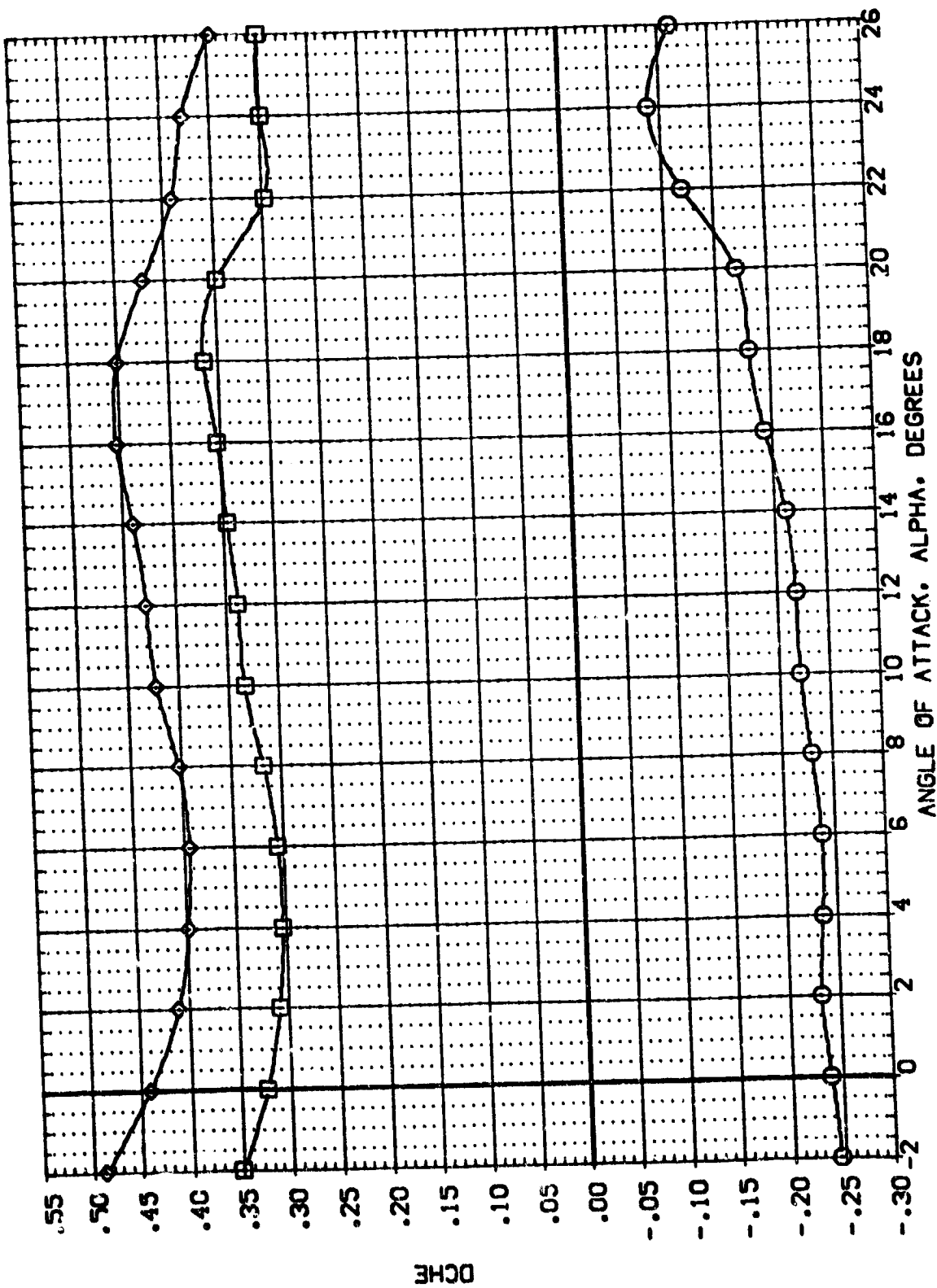


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
[ABTC05]	AVES 66-706 0413 B10 CS D7 H3 F4 V87E18 VS95	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
[ABTC22]	AVES 66-706 0413 B10 CS D7 H3 F4 V87E18 VS95	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
[ABTC06]	AVES 66-706 0413 B10 CS D7 H3 F4 V87E18 VS95	-14.200	-40.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

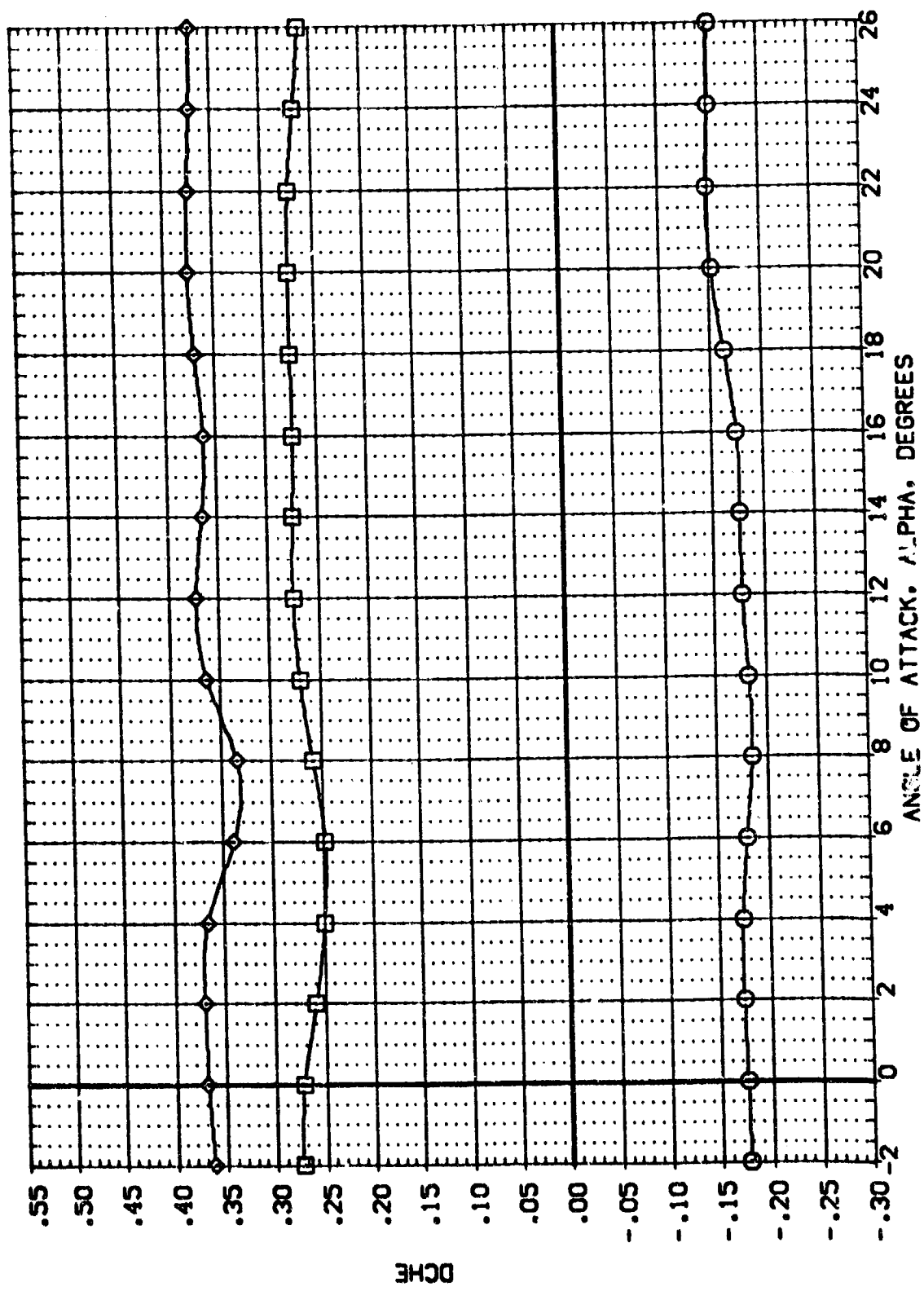


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(D)MACH = 1.50

DATA SET SYMBOL: (ABTCS) (ABTCS) (ABTCS)

CONFIGURATION DESCRIPTION: AYES 66-705 DA13 B10 CS 07 M3 F4 V87E18 VSRS AYES 66-705 DA13 B10 CS 07 M3 F4 V87E18 VSRS AYES 66-705 DA13 B10 CS 07 M3 F4 V87E18 VSRS

BOOFLP ELEVON SPOBRX RUDDER REFERENCE INFORMATION

-14.200 10.000 54.900 .000 2690.0000 SQ.FT.
 -14.200 -20.000 54.900 .000 474.8000 IN.
 -14.200 -40.000 54.900 .000 936.6800 IN.
 .000 .000 .000 .000 1076.4800 IN.
 .000 .000 .000 .000 400.0000 IN.
 .0150 SCALE

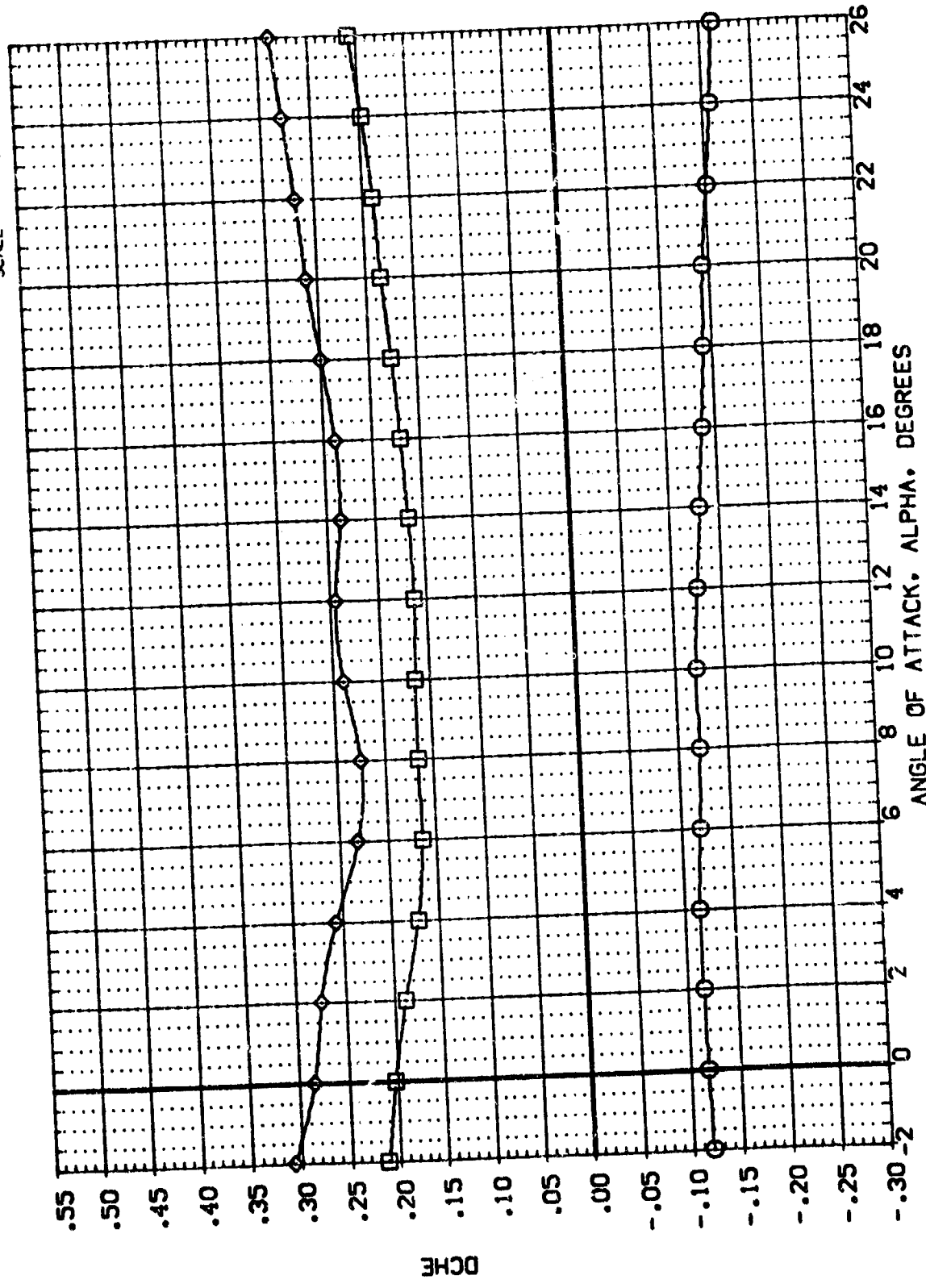


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPDRBK	RUDDER	REFERENCE INFORMATION
(ABT005)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 VSX5	-14.200	10.000	54.900	.000	SREF 2630.0000 SQ.FT.
(ABT022)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 VSX5	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(ABT006)	AVES 66-706 OA43 B10 CS D7 M3 F4 V87E18 VSX5	-14.200	-40.000	54.900	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						ZMRP 5000 IN.
						SCALE 400.0000 IN.
						SCALE .0150

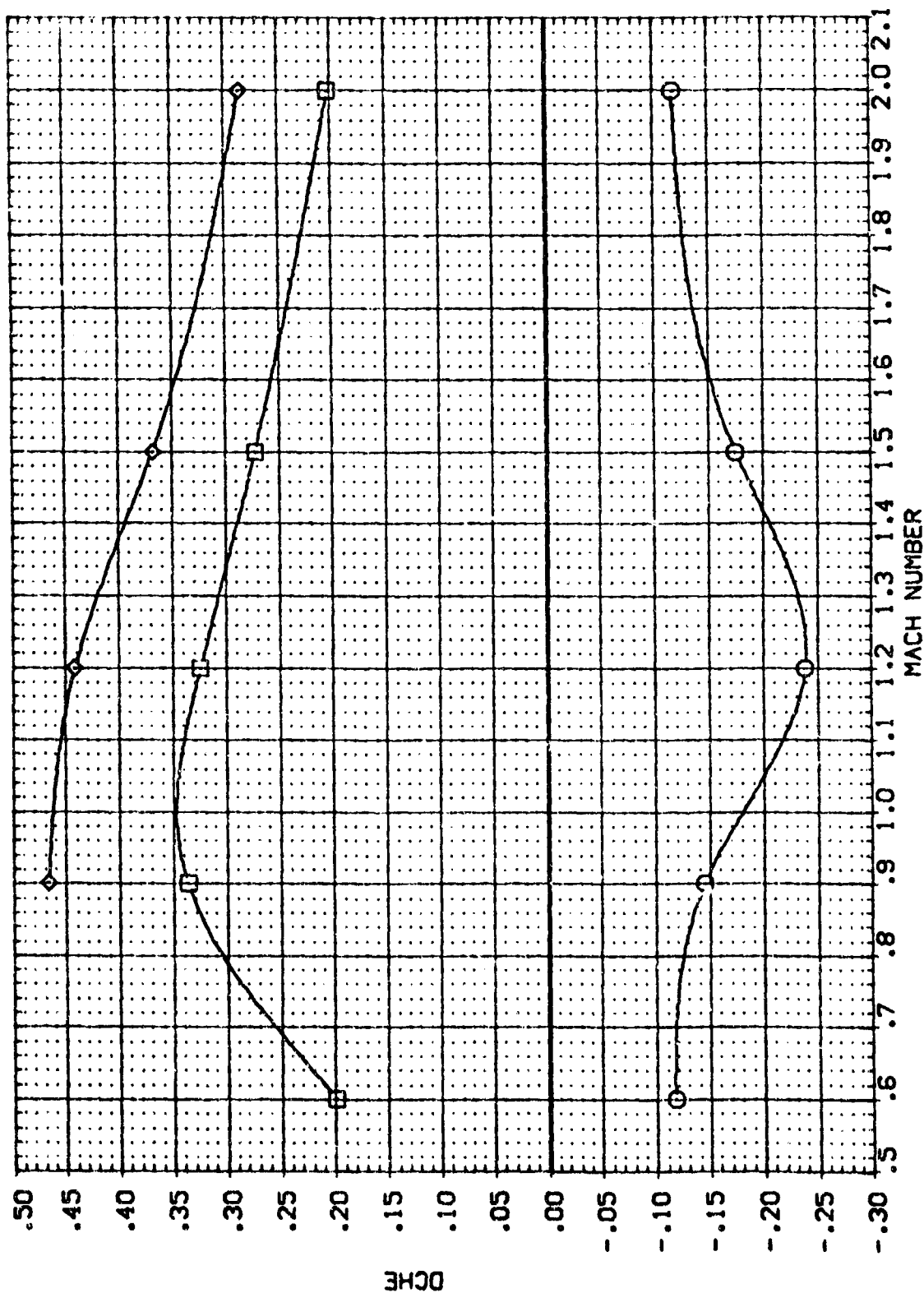


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BODFUP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A8T005)	AVES 66-706 0A43 B10 CS D7 M3 F4 V67E18 VS05	-14.200	10.000	SA.900	.000	SREF 2650.0000
(A8T022)	AVES 66-706 0A43 B10 CS D7 M3 F4 V67E18 VS05	-14.200	-23.000	SA.500	.000	LREF 474.8000
(A8T006)	AVES 66-706 0A43 B10 CS D7 M3 F4 V67E18 VS05	-14.200	-40.000	SA.500	.000	BREF 936.6800
						YREF 1076.4800
						ZREF 0000
						SCALE .0150

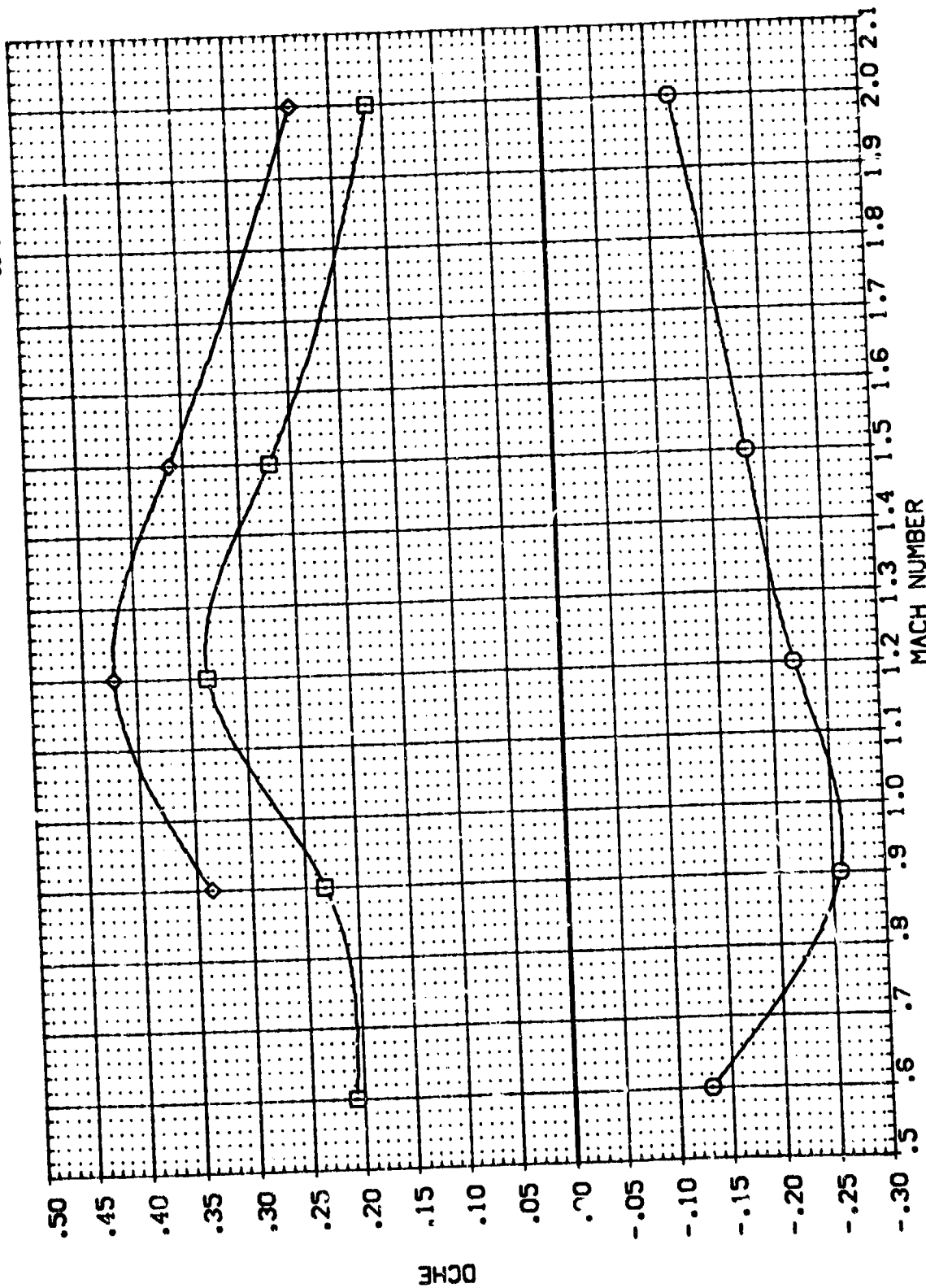


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(AS7DCS)	AVES 66-706 CA43 B10 CS D7 H3 F4 V87E18 V595	-14.200	10.000	54.900	.000	SREF 2690.0000 SQ.FT.
(AS7DZ2)	AVES 66-706 CA43 B10 CS D7 H3 F4 V87E18 V595	-14.200	-20.000	54.900	.000	LREF 474.8000 IN.
(AS7DCS)	AVES 66-706 CA43 B10 CS D7 H3 F4 V87E18 V595	-14.200	-40.000	54.900	.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF 100.0000 IN.
						ZREF 100.0000 IN.
						SCALE .0150

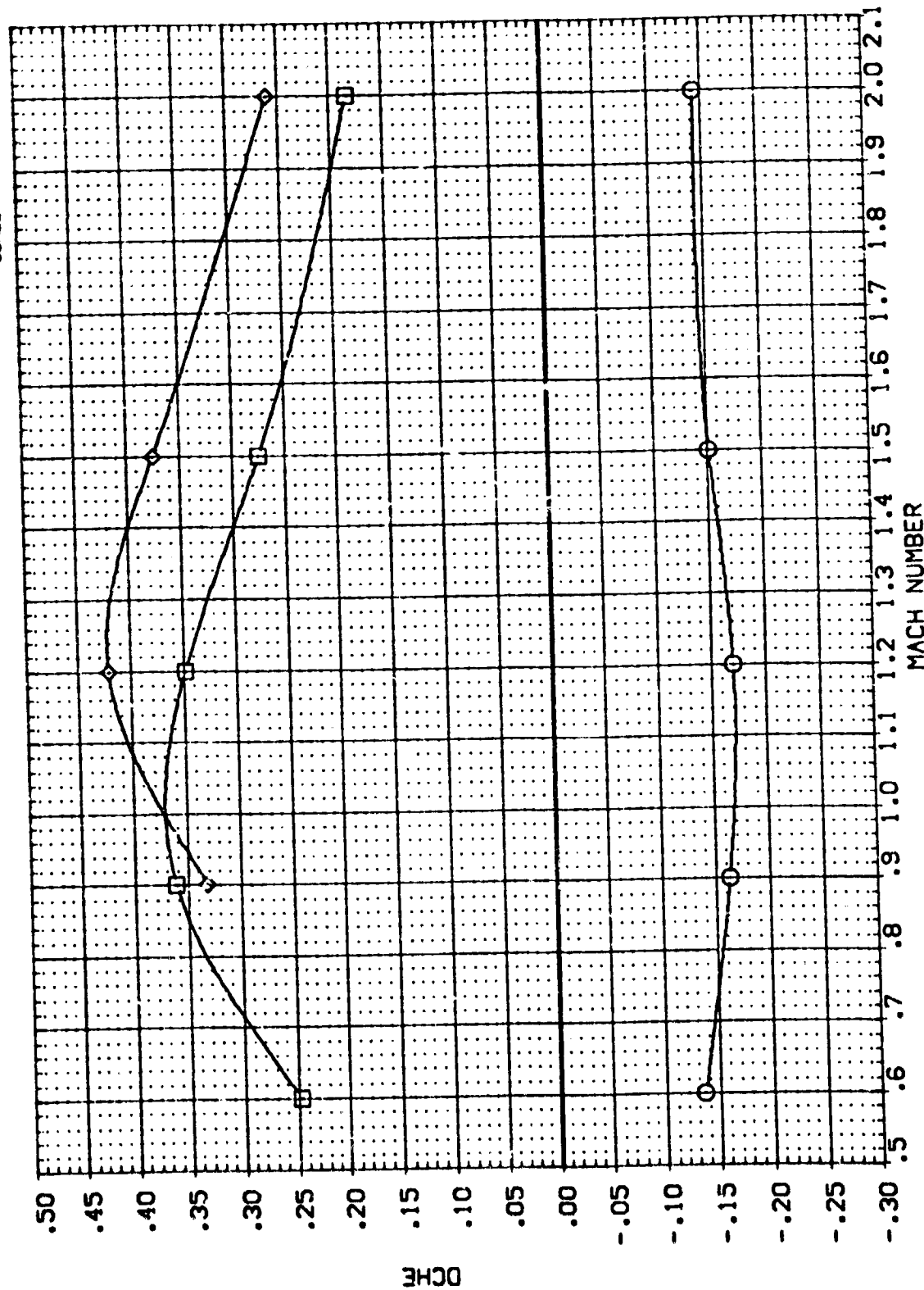


FIG. 25 INCREMENTS DUE TO ELEVON DEFLECTION

(C)ALPHA = 20.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOORX	RUDDER	REFERENCE INFORMATION
(A) 004	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	SREF 2650.0000 SQ.FT.
(A) 014	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-15.000	LREF 474.8000 IN.
(A) 017	AVES 66-706 DA43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-20.000	BREF 936.6800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

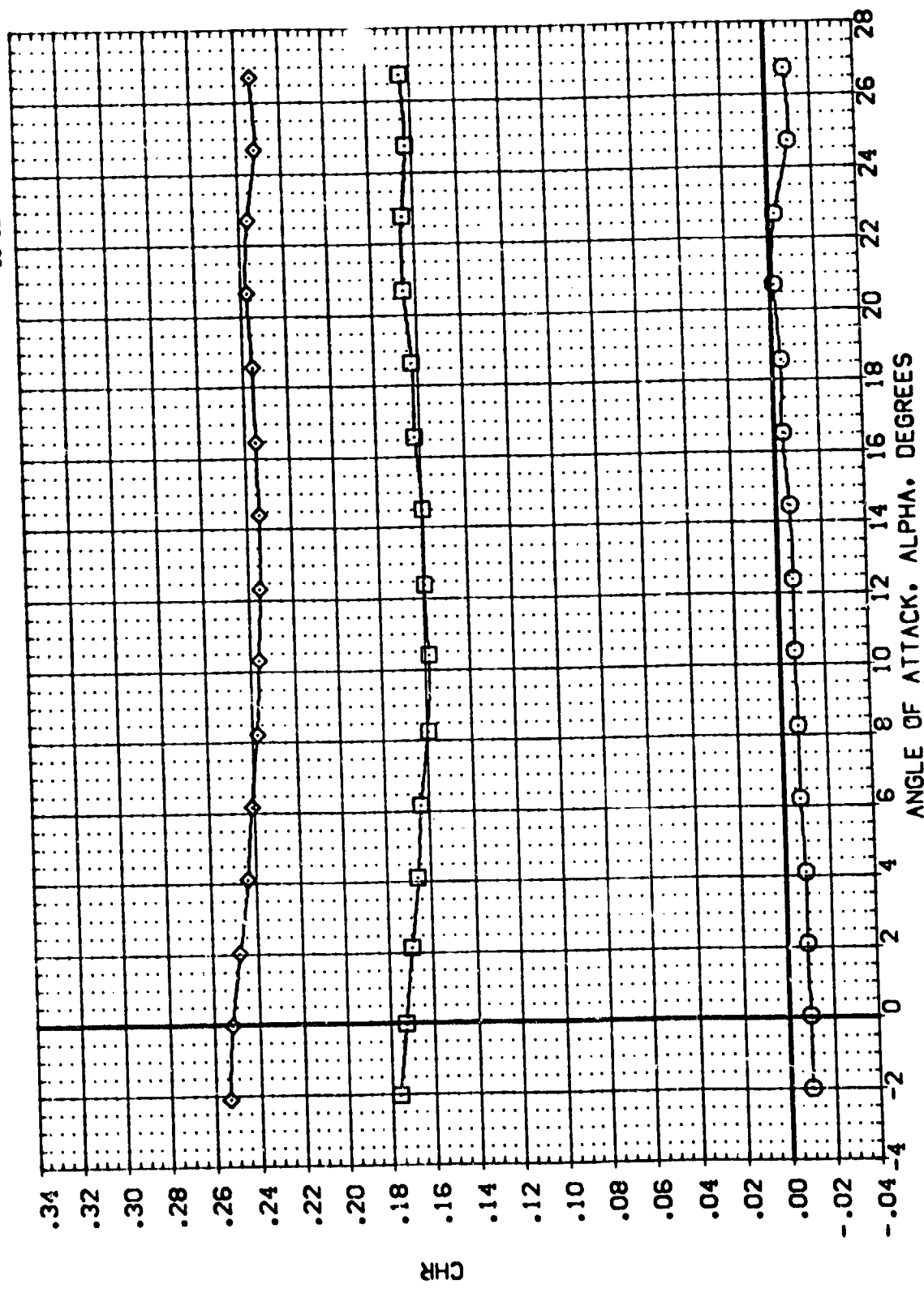


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
AVES 66-706	Q43 B10 CS D7	M3 F4 V87E18 V5RS	-14.200	.000	54.900	.000	SREF 2690.0000
AVES 66-706	Q43 B10 CS D7	M3 F4 V87E18 V5RS	-14.200	.000	54.900	-15.000	LRUF 474.8000
AVES 66-706	Q43 B10 CS D7	M3 F4 V87E18 V5RS	-14.200	.000	54.900	-20.000	BRUF 936.6800
							XRUF 1076.1800
							YRUF .0000
							ZRUF .0000
							SCALE .0150

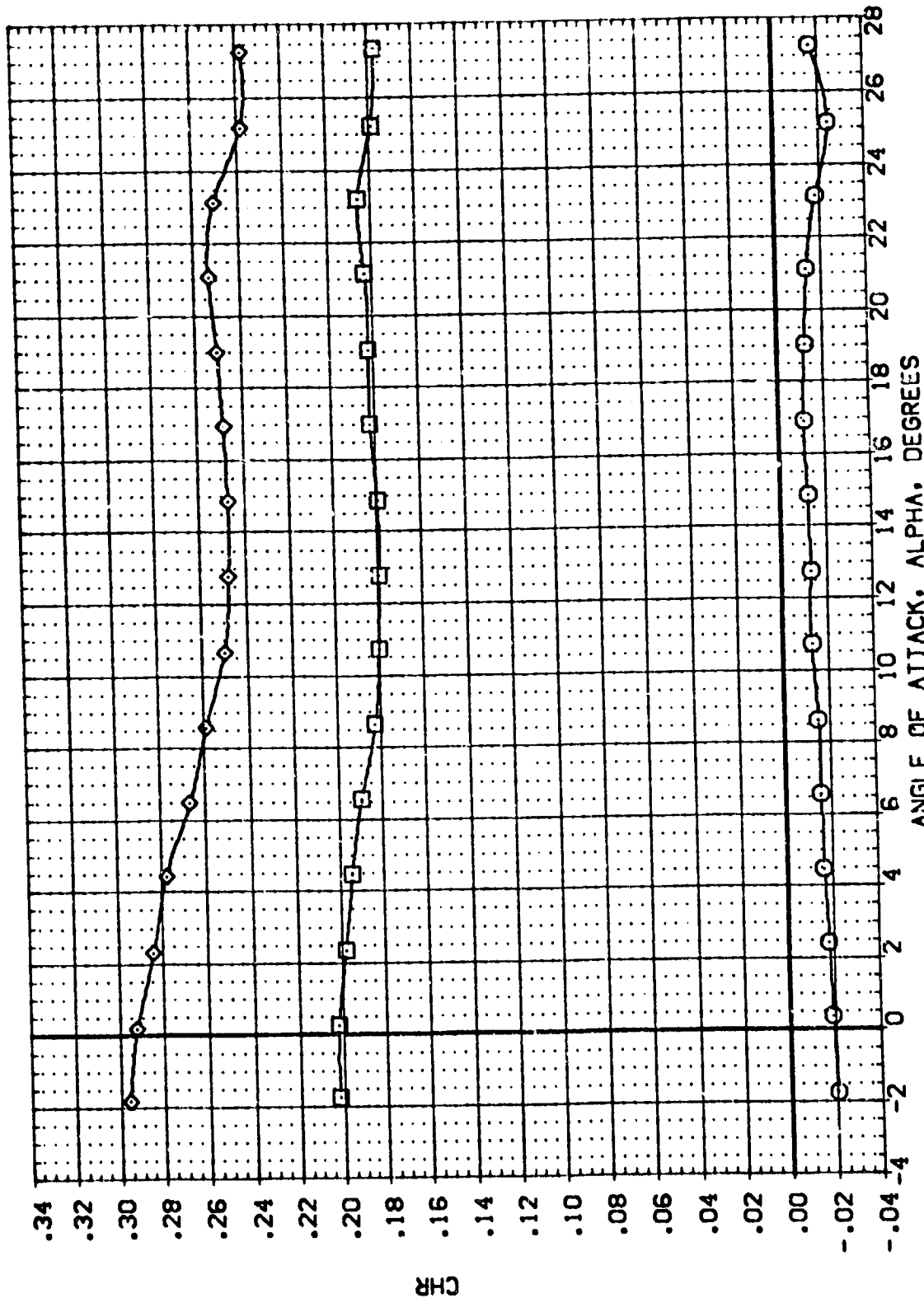


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(B)MACH = .91

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFIP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABT004)	AVES 66-706 0A43 B10 CS D7 P3 F4 V87E18 VSMS	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(ABT014)	AVES 66-706 0A43 B10 CS D7 P3 F4 V87E18 VSMS	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
(ABT017)	AVES 66-706 0A43 B10 CS D7 P3 F4 V87E18 VSMS	-14.200	.000	54.900	-20.000	BREF 936.6800 IN.
						YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

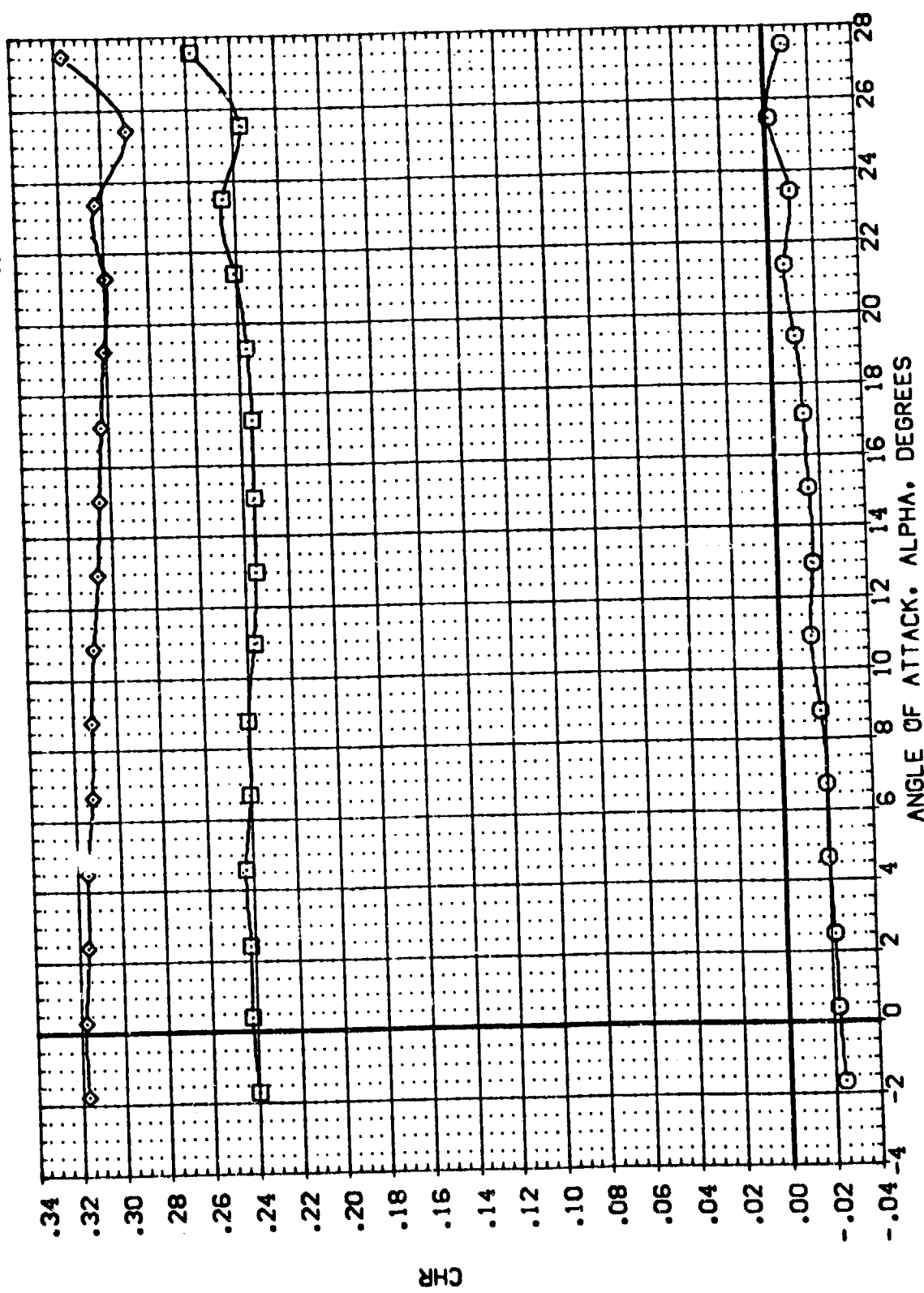


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(C)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABT004)	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	SREF 2630.0000 90.FT.
(ABT014)	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.500	-15.000	UREF 474.8000 IN.
(ABT017)	AVES 66-706 0A13 B10 CS D7 H3 F4 V87E18 VSRS	-14.200	.000	54.500	-20.000	BREF 936.6800 IN.
						YREF 1076.4800 IN.
						ZREF .0000 IN.
						SCALE .0150

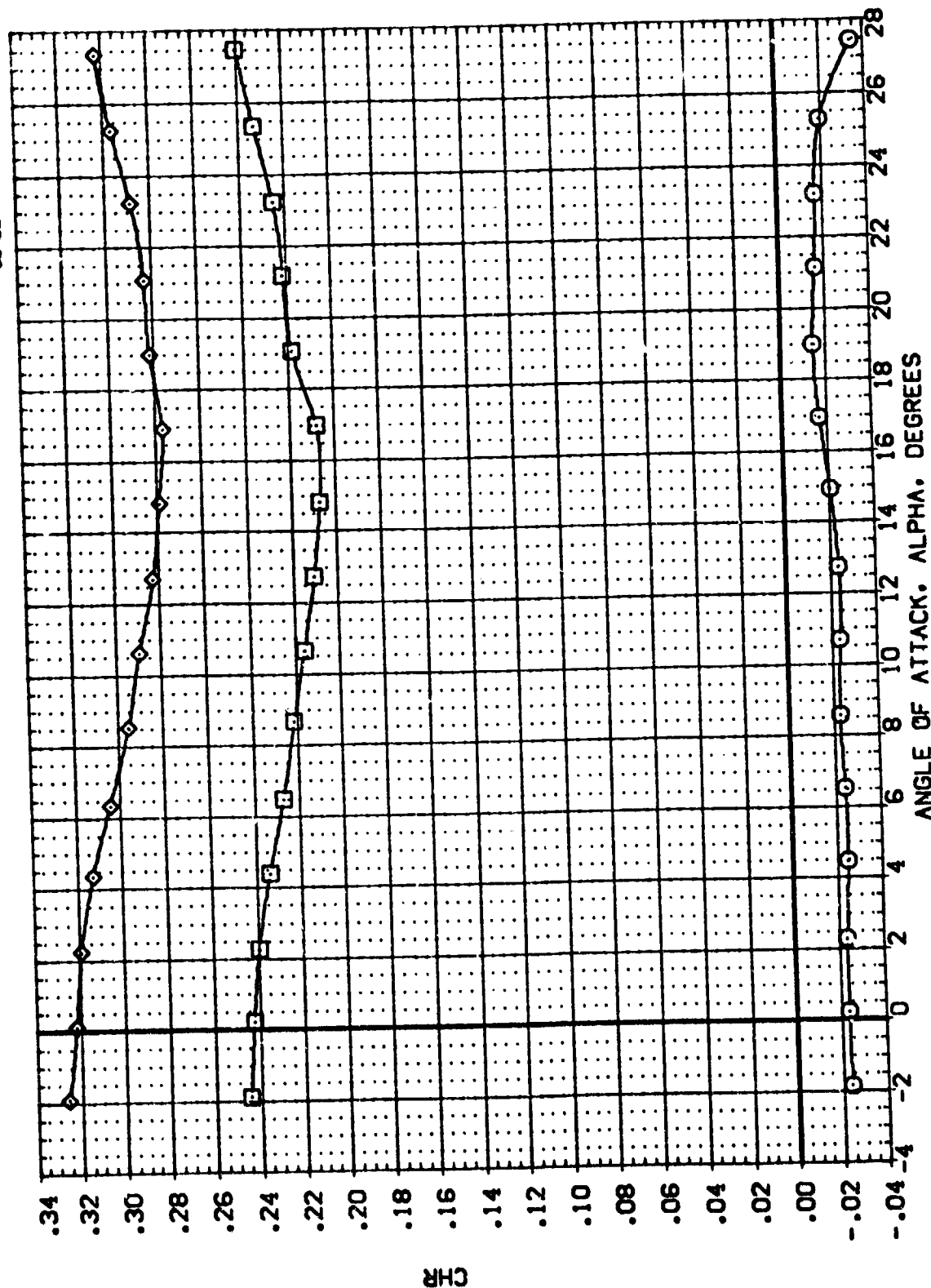


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(0)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDLR	REFERENCE INFORMATION
(ABT004)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 VS85	-14.200	.000	54.900	.000	SREF 2690.0000 SQ.FT.
(ABT014)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 VS85	-14.200	.000	54.900	-15.000	LREF 474.8000 IN.
(ABT017)	AVES 66-706 0A43 B10 CS D7 H3 F4 V87E18 VS85	-14.200	.000	54.900	-20.000	BREF 936.8000 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

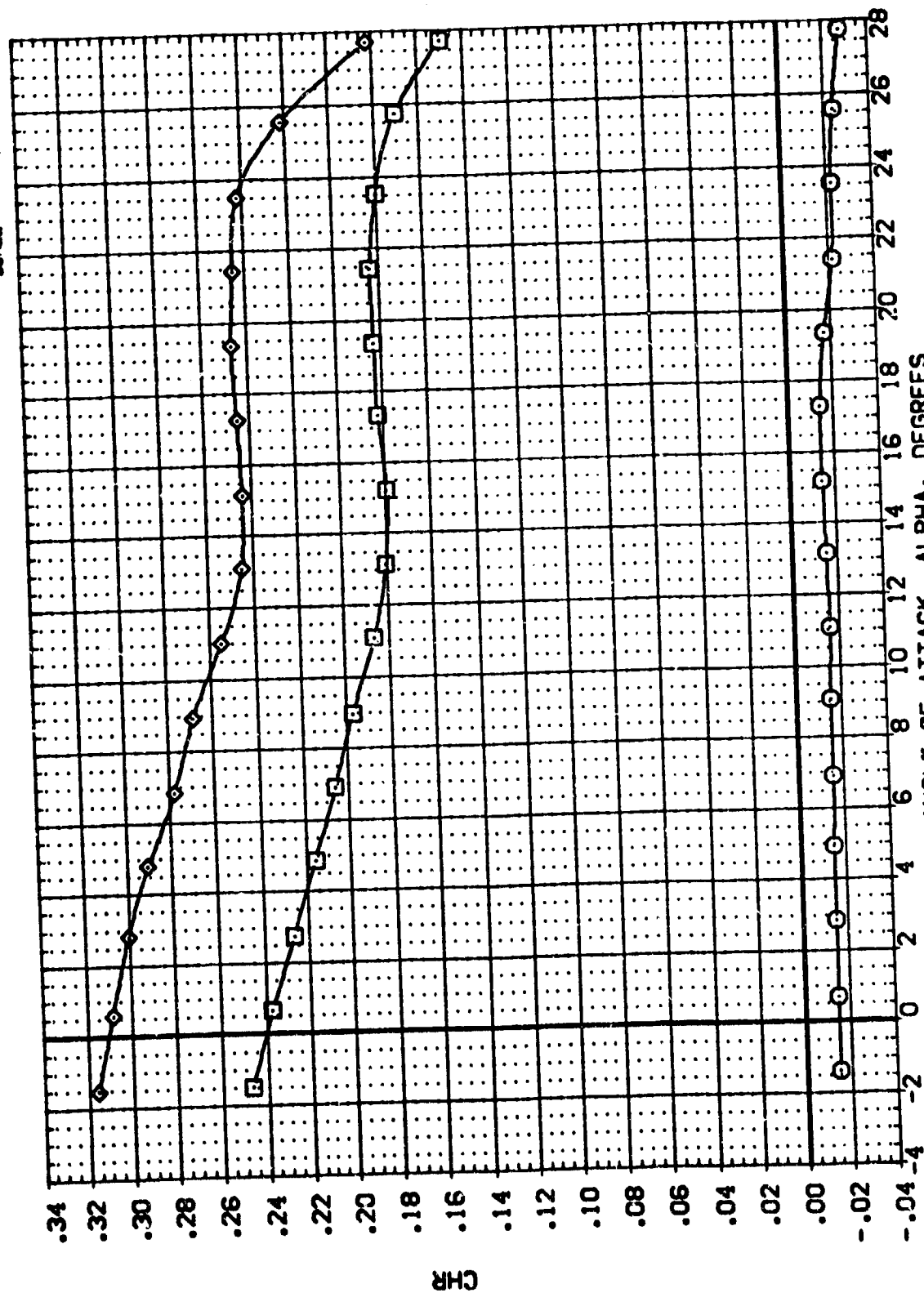


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABT804)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	.000	SREF 2680.0000 90.FT.
(ABT814)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-15.000	LREF 474.8000 IN.
(ABT817)	AVES 66-706 DM43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-20.000	BREF 526.6000 IN.
						XREF 1076.4800 IN.
						YREF 400.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

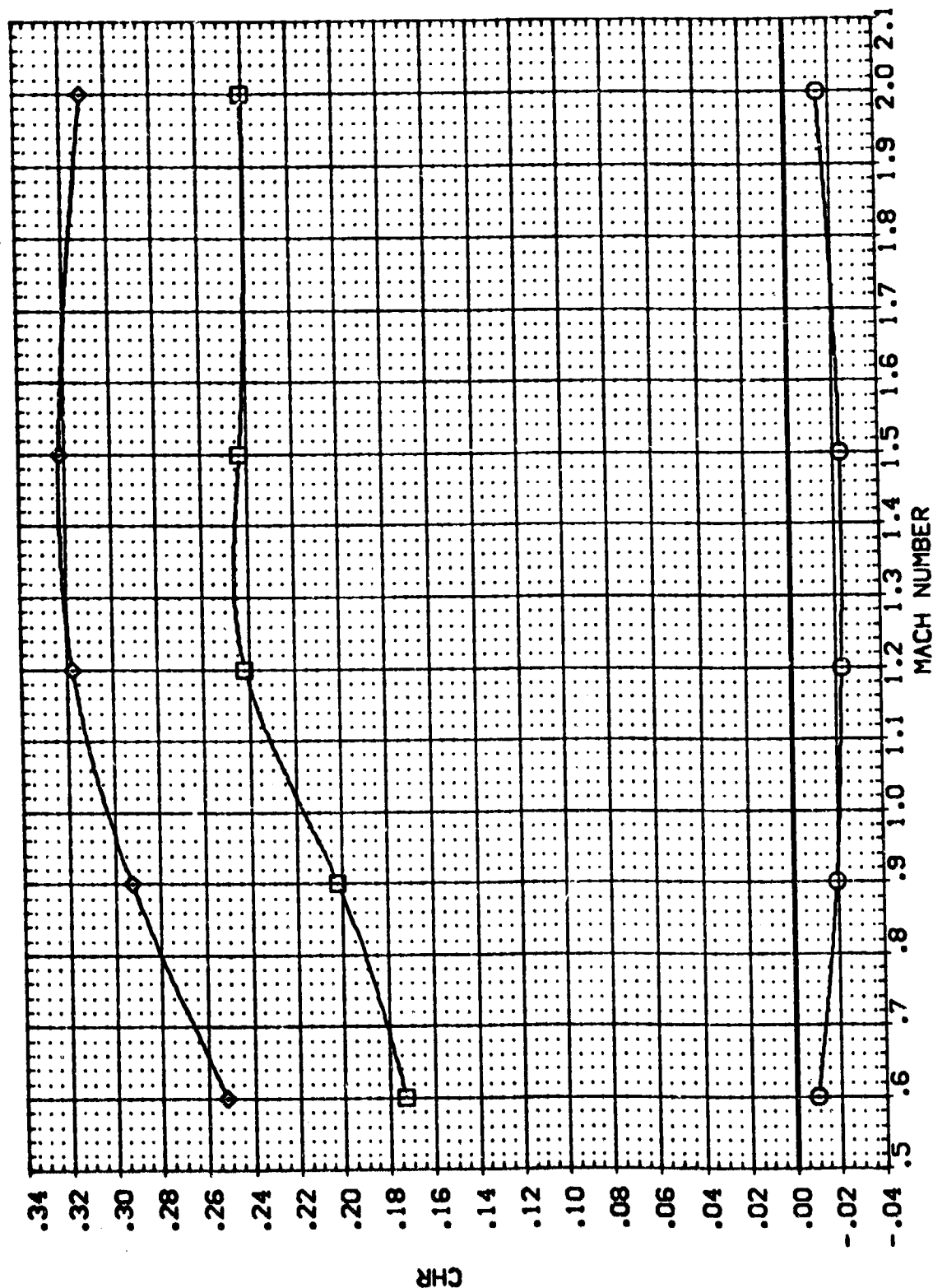


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(AJALPHA = .00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPD BRK	RUDDER	REFERENCE INFORMATION
(ABT804)	AVES 66-706 0A43 810 CS D7 H3 F4 V87E18 VS95	-14,200	.000	54,500	.000	SREF 2630.0000 SQ.FT.
(ABT814)	AVES 66-706 0A43 810 CS D7 H3 F4 V87E18 VS95	-14,200	.000	54,500	-15.000	LREF 474.8000 IN.
(ABT817)	AVES 66-706 0A43 810 CS D7 H3 F4 V87E18 VS95	-14,200	.000	54,500	-20.000	BREF 536.8800 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

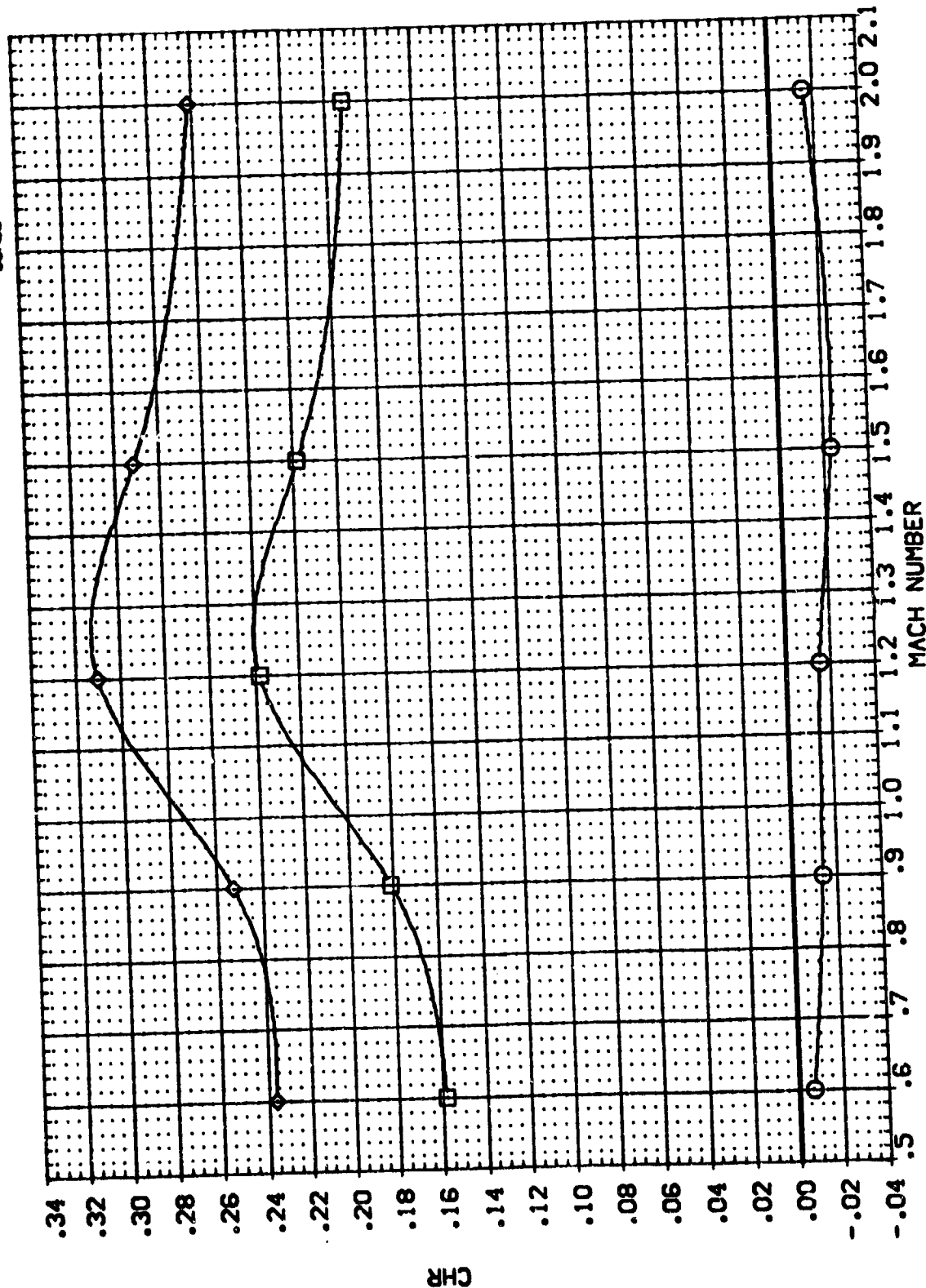


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(B) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFUP	ELEVON	SPDBRK	RUDDER	REFERENCE INFORMATION
(PARTB04)	AVES 66-706 0M43 810 CS D7 M3 F4 V67E18 V5R5	-14.200	.000	54.500	.000	SREF 2690.0000 SQ.FT.
(ASTB14)	AVES 66-706 0M43 810 CS D7 M3 F4 V67E18 V5R5	-14.200	.000	54.500	-15.000	LREF 474.8000 IN.
(ASTB17)	AVES 66-706 0M43 810 CS D7 M3 F4 V67E18 V5R5	-14.200	.000	54.500	-20.000	BREF 938.8600 IN.
						XREF 1076.4800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

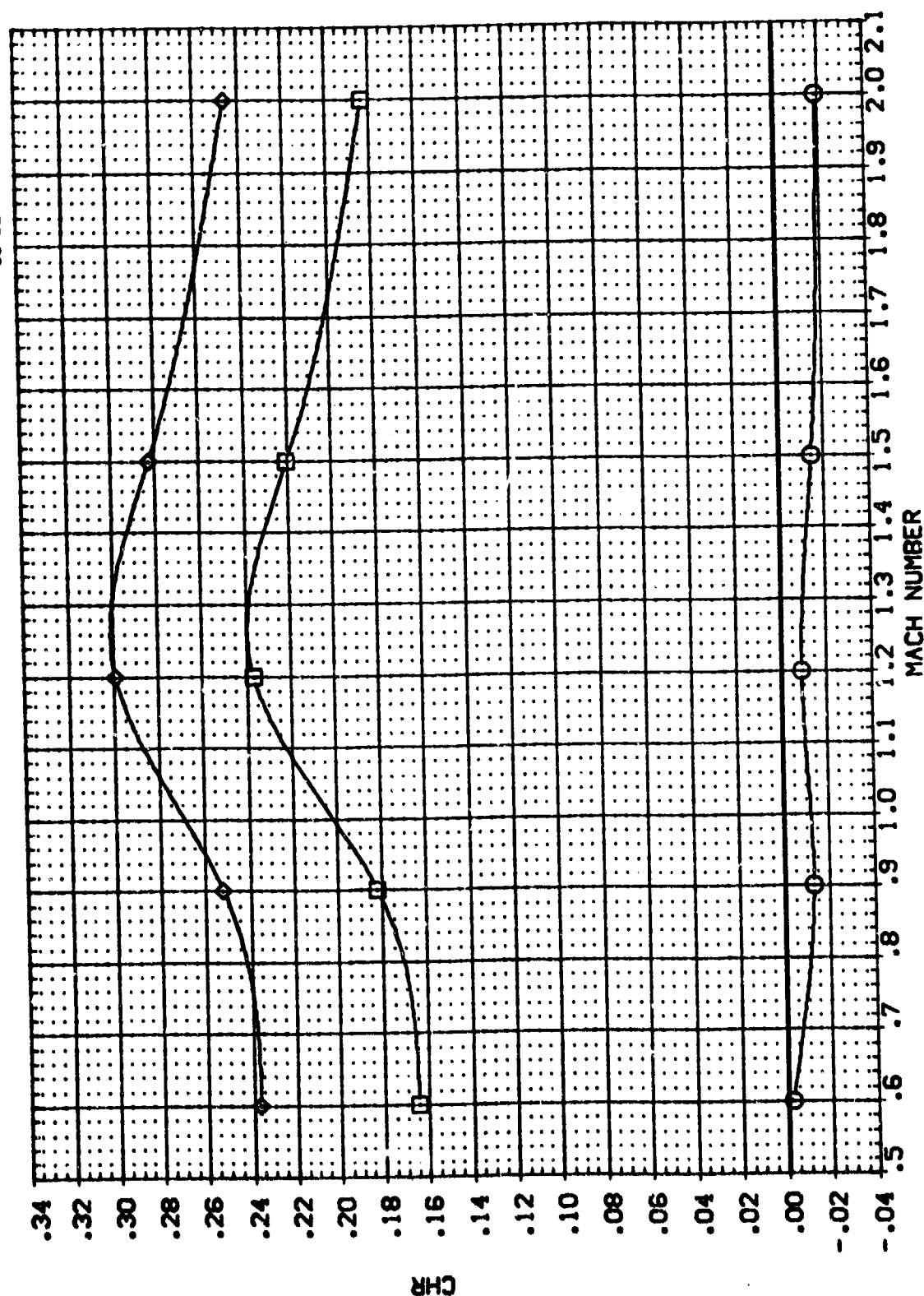


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(CJALPHA = 20.00)

DATA SET SYMBOL: (A8T015) (A8T016)

CONFIGURATION DESCRIPTION:
 ASES 66-706 QM3 B10 CS D7 M3 F4 V87E18 V595
 ASES 66-706 QM3 P10 CS D7 M3 F4 V87E18 V595

RODFP: -14.200
 ELEVON: .000
 SP08M: 24.500
 RUDDER: -10.000

REFERENCE INFORMATION:
 SREF: 2650.0000 IN.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XREF: 1076.4800 IN.
 YREF: 0.0000 IN.
 ZREF: 400.0000 IN.
 SCALE: .0150

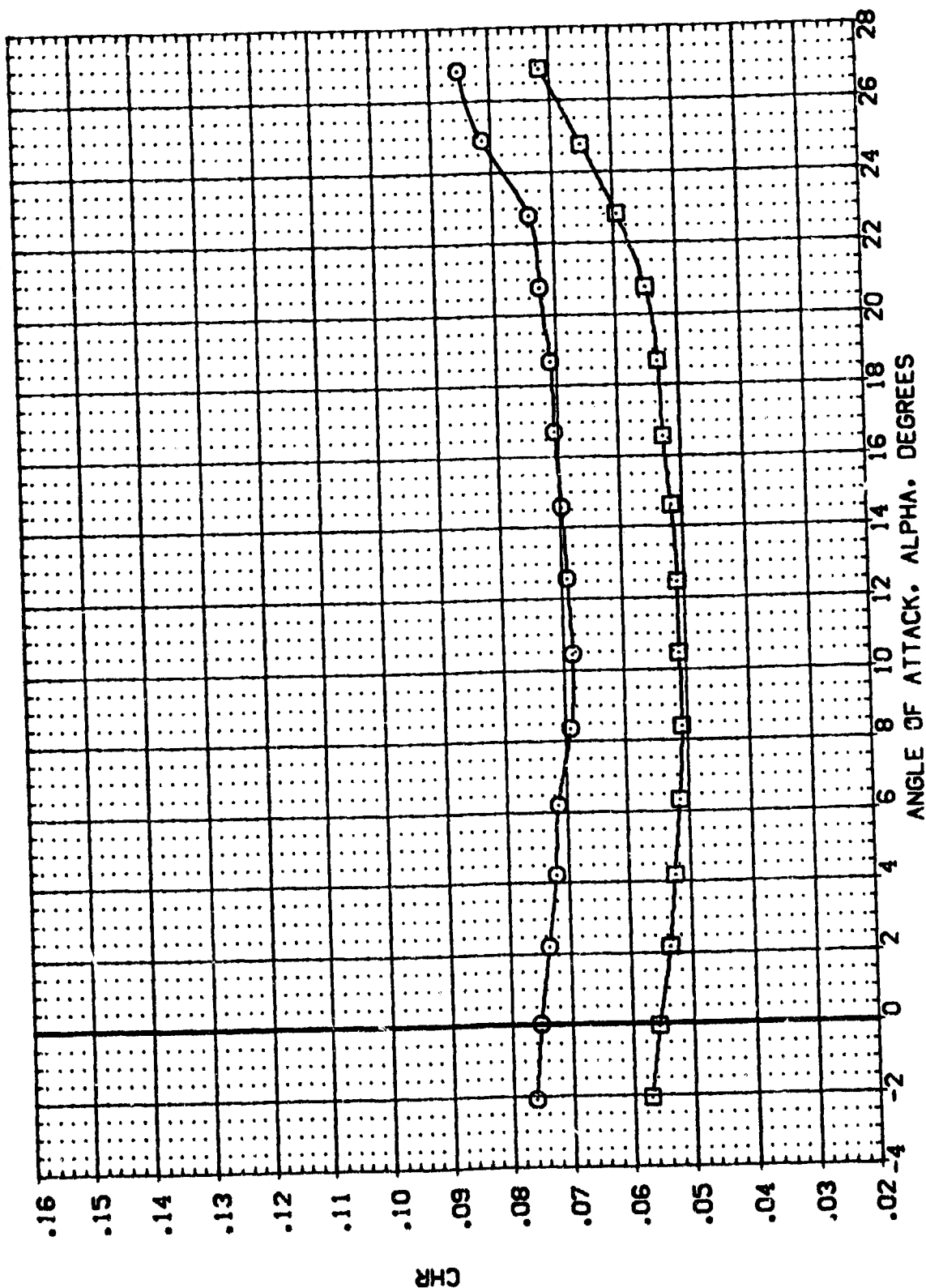


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(AJMACH = .60)

DATA SET SYMB.	CONF.IGRATION DESCRIPTION	BOOF.P	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A)0015)	AWES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5	-14.200	.000	24.900	-10.000	SREF 2890.0000
(A)0016)	AWES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5	-14.200	.000	.000	-10.000	LREF 474.8000
						SREF 536.8800
						XREF 1076.4800
						YREF .0000
						ZREF 400.0000
						SCALE .0150

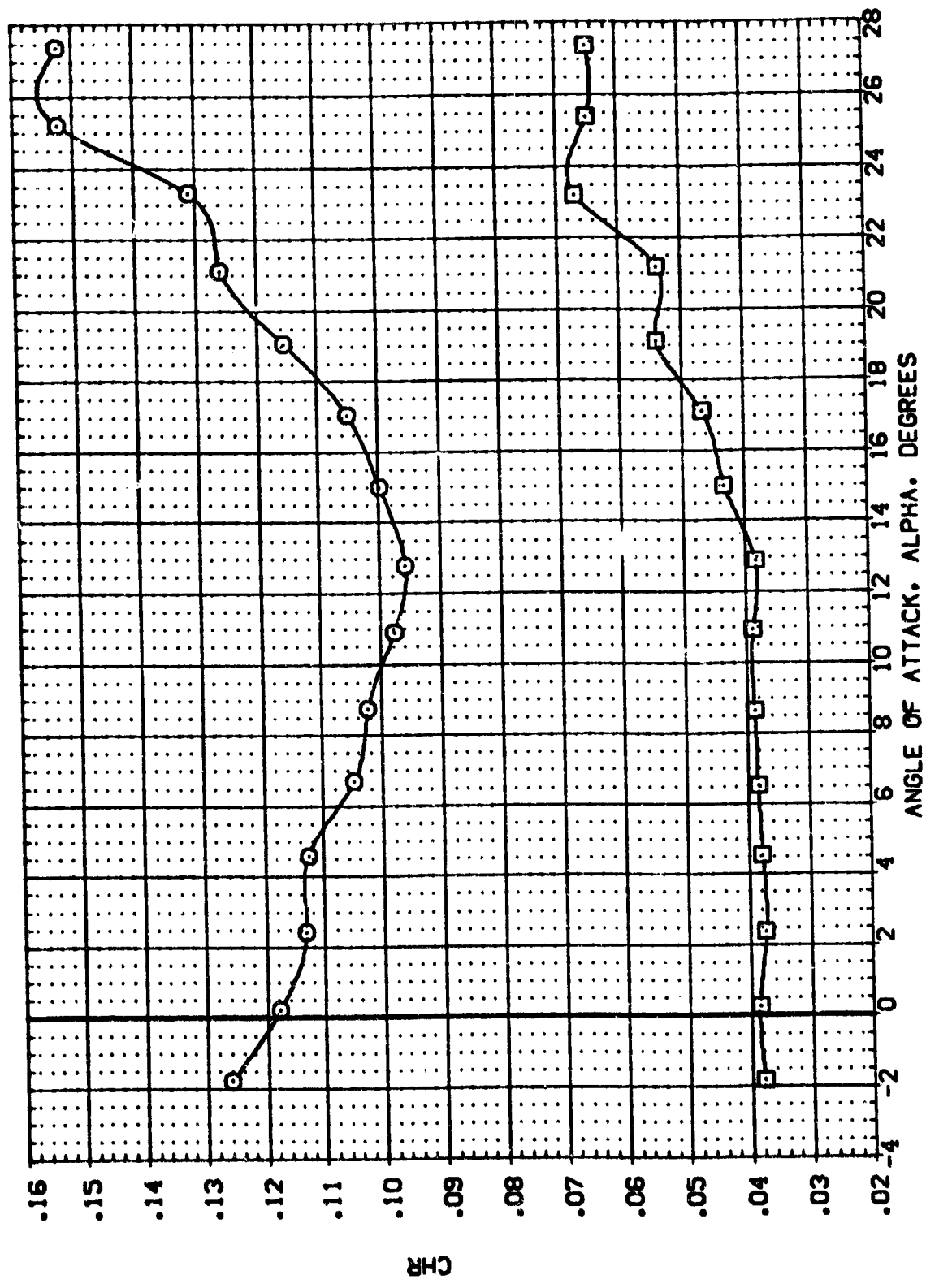


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(B)MACH = .91



DATA SET SYMBOL. (A81015) (A81016)

CONFIGURATION DESCRIPTION
 ASES 66-706 0A13 B10 CS D7 H3 F4 V67E18 V5K5
 ASES 66-706 0A13 B10 CS D7 H3 F4 V67E18 V5K5

BOOFUP ELEVON STDBRK RUDDER
 -14.200 .000 .000 -10.000
 -14.200 .000 .000 -10.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XTRP 1076.1800 IN.
 YTRP .0000 IN.
 ZTRP 400.0000 IN.
 SCALE .0150

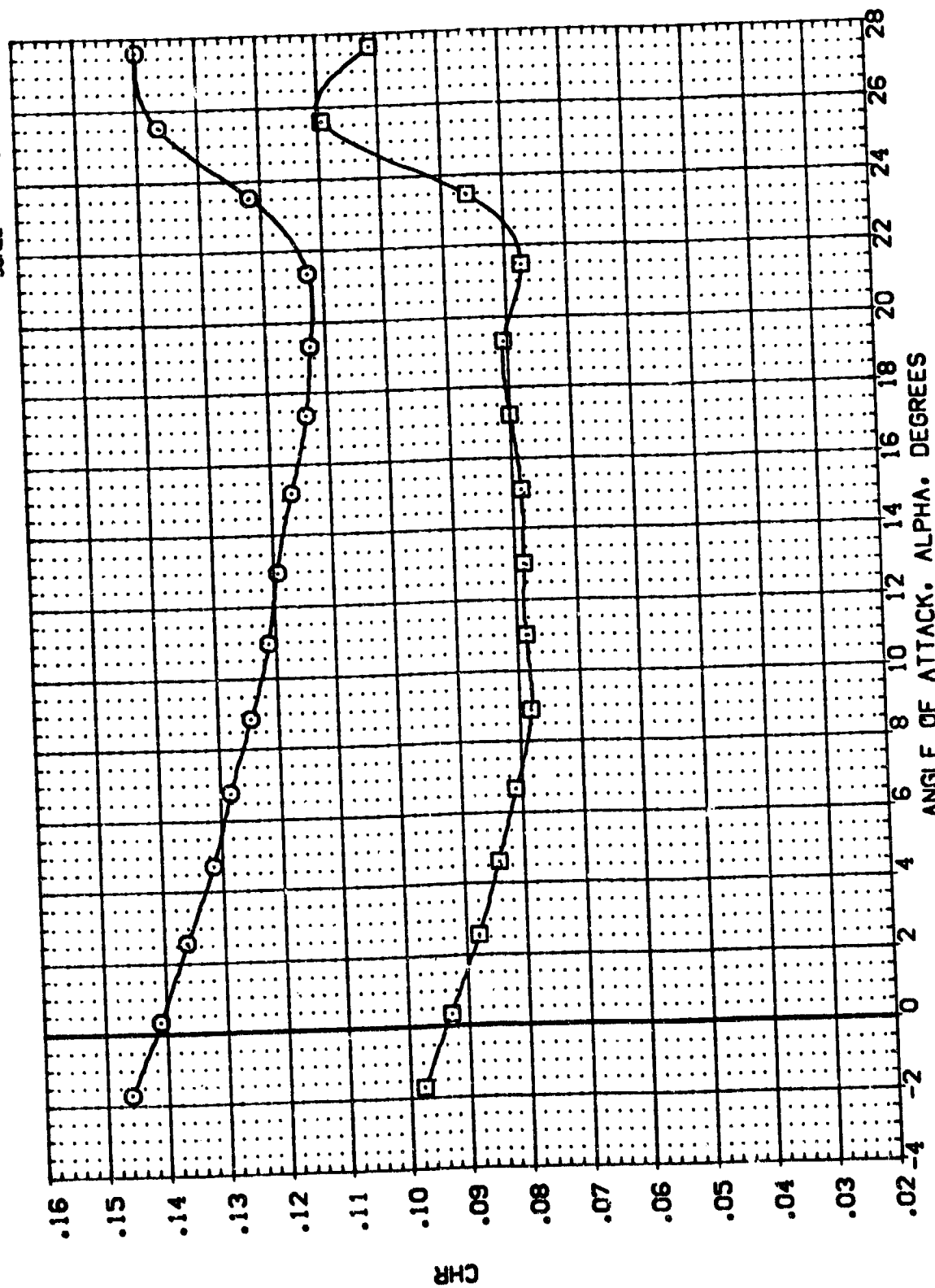


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(C)MACH = 1.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION										ELEVON		SPDBRK		RUDDER		REFERENCE INFORMATION	
(ABTD15)		AVES 65-705 DM3 B10 CS 07 M3 F4 W87E18 V5R5										-14.200		24.500		-10.000		SREF 2630.0000 SQ.FT.	
(AR1016)		AVES 65-705 DM3 B10 CS 07 M3 F4 W87E18 V5R5										-14.200		24.500		-10.000		LREF 474.8000 IN.	
																		BREF 936.6800 IN.	
																		XREF 1076.4800 IN.	
																		YREF 400.0000 IN.	
																		ZREF 400.0000 IN.	
																		SCALE .0150	

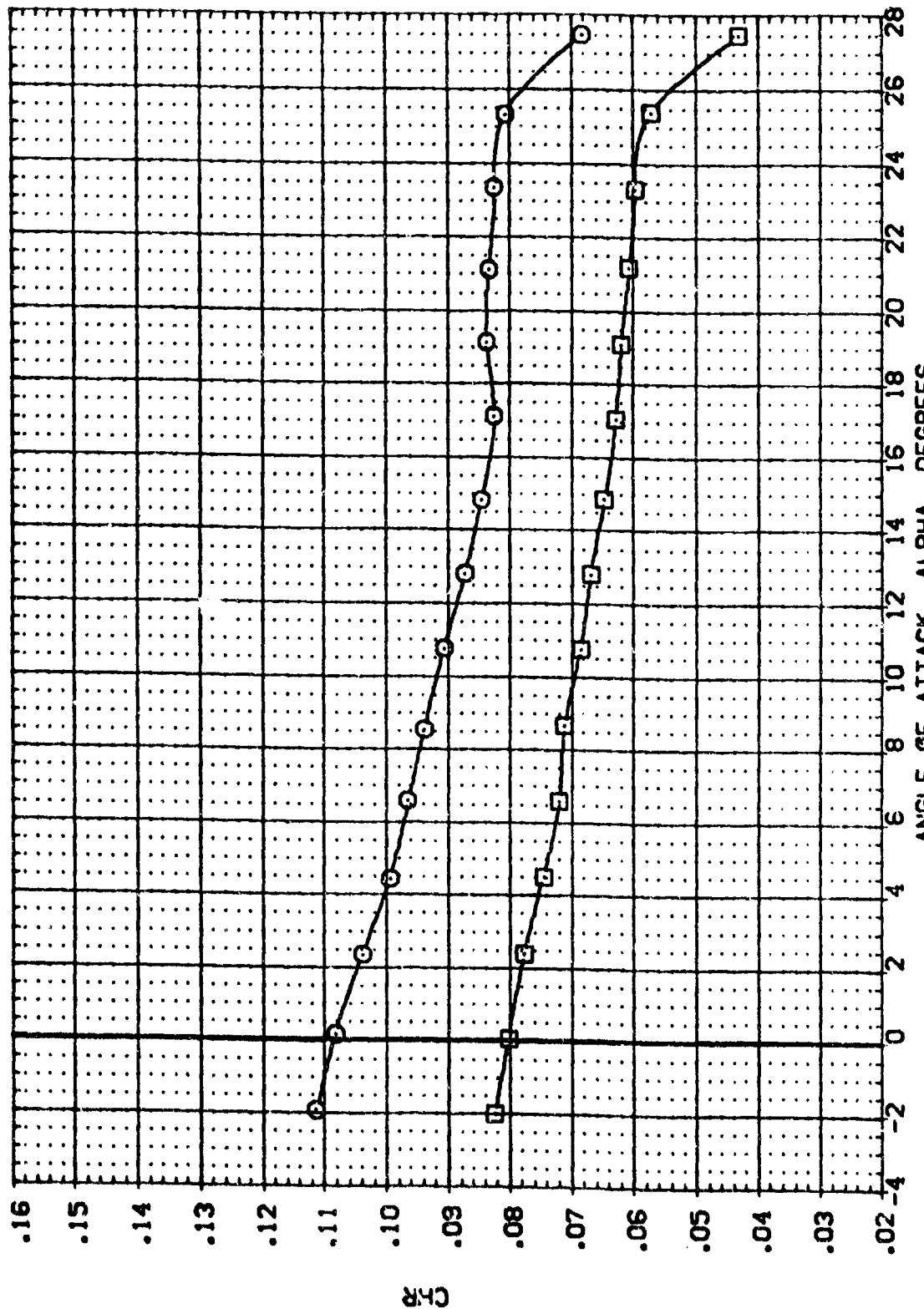


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(O)MACH = 1.50



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(A87015)	AMES 66-706 0A43 B10 CS 07 H3 F4 V67E18 V5V5	-14.200	.000	24.500	-10.000	SREF 2650.0000 SQ.FT.
(A87016)	AMES 66-706 0A43 B10 CS 07 H3 F4 V67E18 V5V5	-14.200	.000	.000	-10.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YREF 1076.4800 IN.
						YREF 1076.4800 IN.
						ZREF 400.0000 IN.
						SCALE .0150

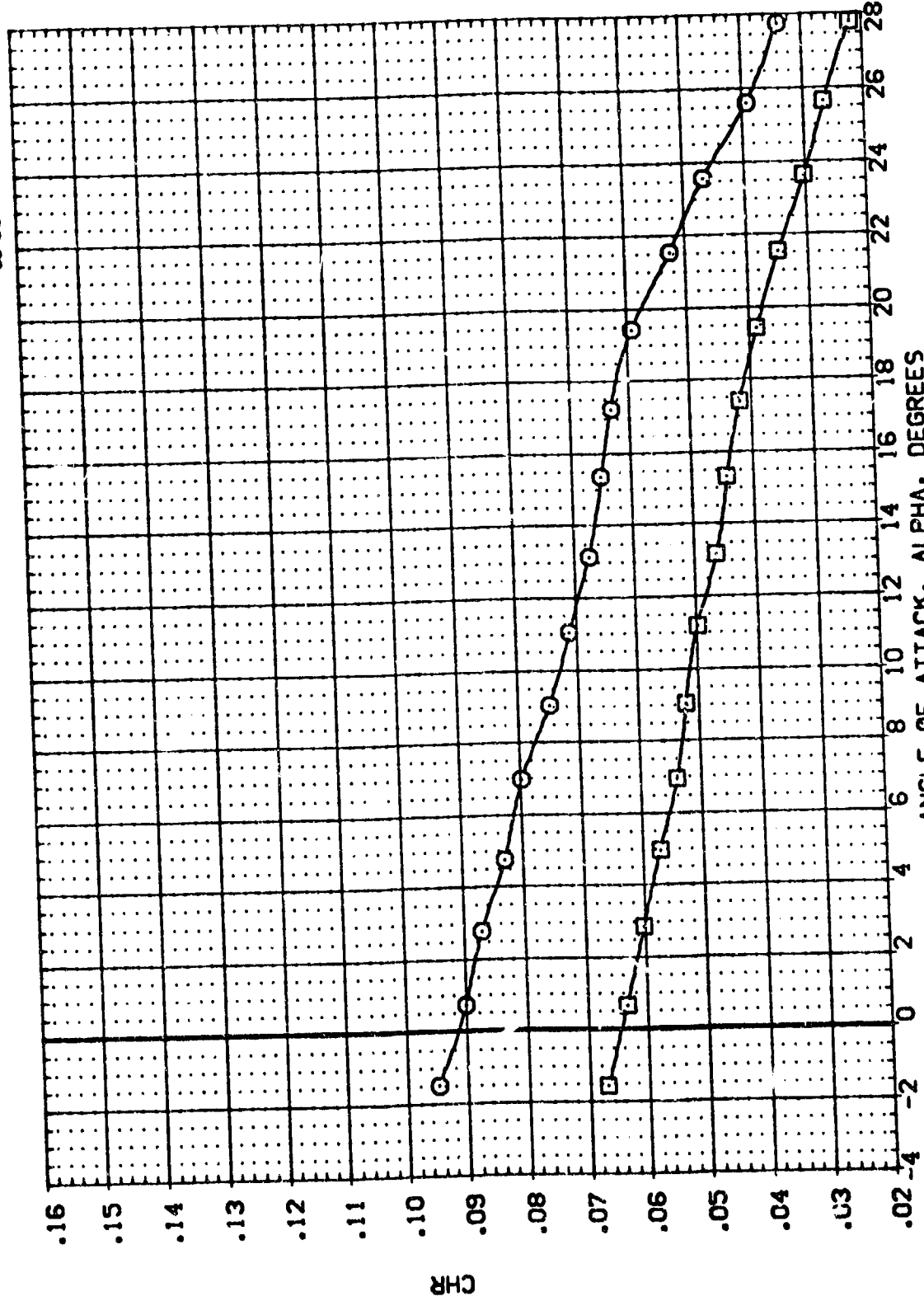


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(C)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOOF LP	ELEVON	SPOBRK	RUDDER	REFERENCE INFORMATION
(ABT215)	AVES 66-706 CM43 B10 CS 07 PG F4 V87E18 V545	-14.200	.000	24.900	-10.000	SREF 2690.0000 SQ.FT.
(ABT816)	AVES 66-706 CM43 B10 CS 07 PG F4 V87E18 V545	-14.200	.000	.000	-10.000	LREF 474.8000 IN.
						BREF 936.6200 IN.
						XREF 1076.1800 IN.
						YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150

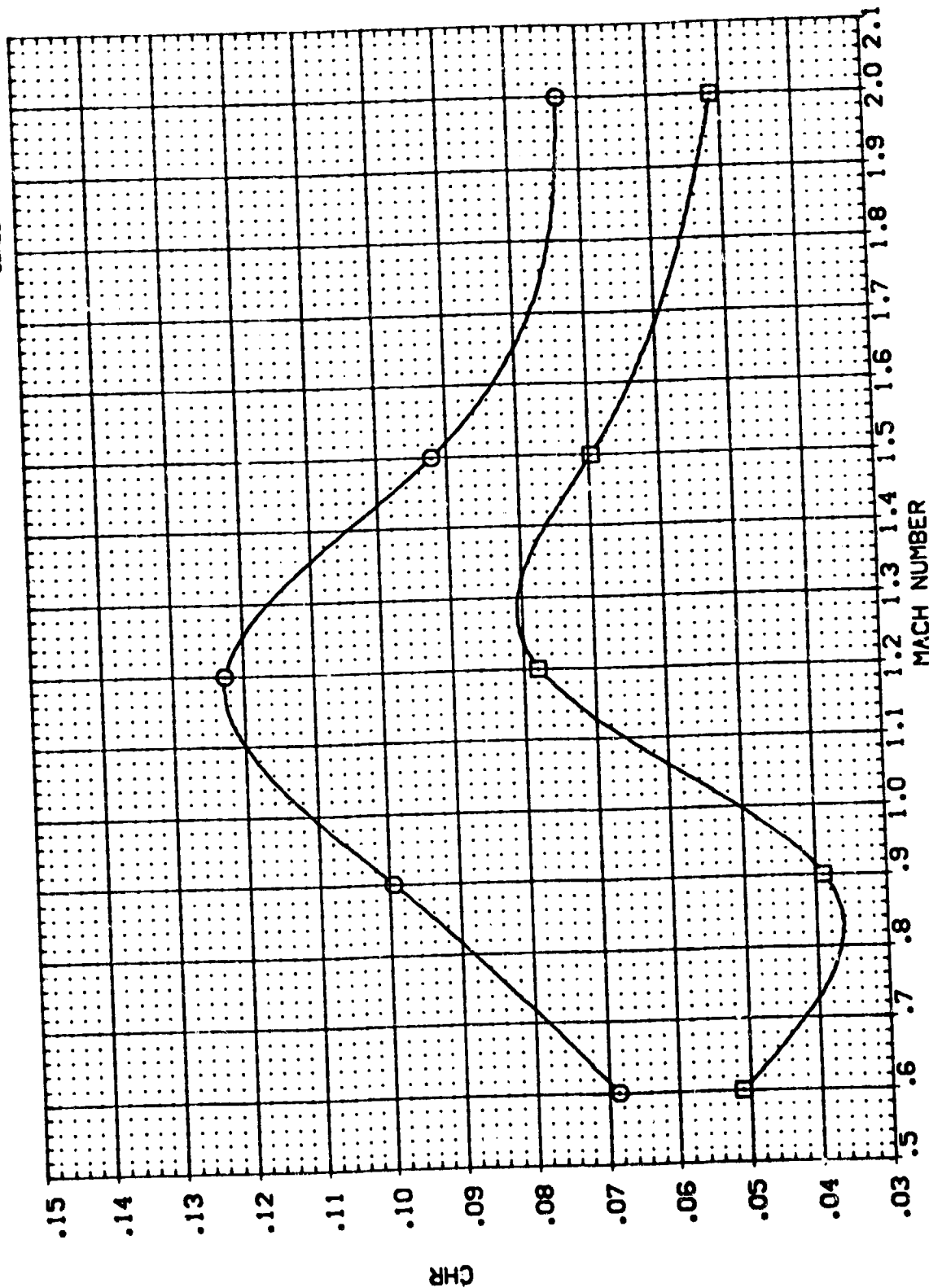


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

(B) ALPHA = 10.00

CONFIGURATION DESCRIPTION									
AMES	66-706	0A43	B10	C	07	H3	F4	V87E18	V5R5
AMES	66-706	0A43	B10	C5	07	H3	F4	V87E18	V5R5

BOOF LP	ELEV	SPOBRK	RUDDER
-14.200	.000	24.900	-10.000
14.200	.000	.000	-10.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
REF	474.6000 IN.
SREF	536.6800 IN.
REF	1076.1800 IN.
REF	400.0000 IN.
REF	400.0000 IN.
SCALE	0.150 SCALE

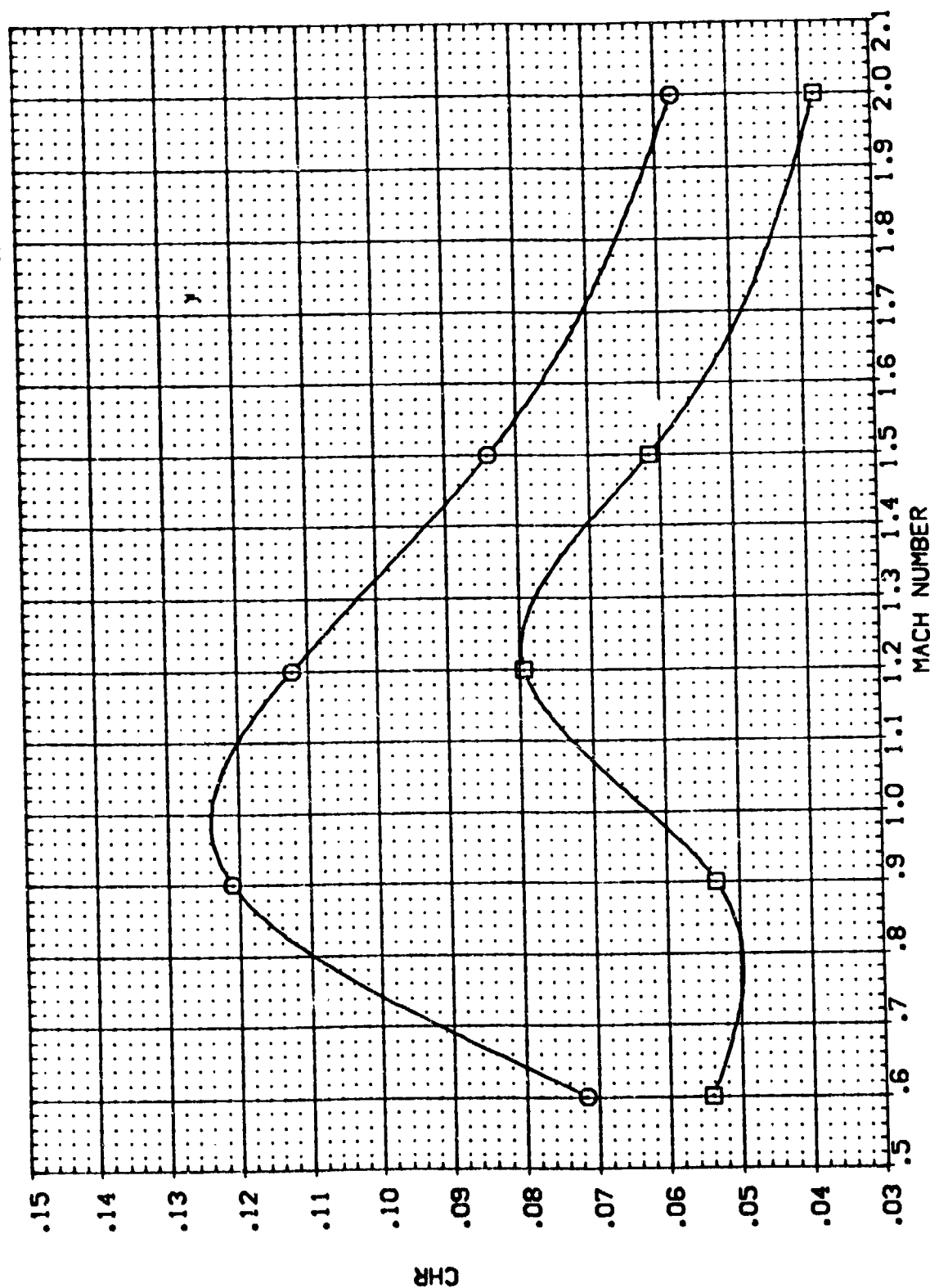


FIG. 26 RUDDER HINGE MOMENT WITH RUDDER DEFLECTION

CCALPHA = 20.00



DATA SET SYMBOL: (ABTC14) (ABTC17)

CONFIGURATION DESCRIPTION: AYES 65-705 DM13 B10 CS 07 H3 F4 V87E18 VSRS AYES 65-706 DM13 B10 CS 07 H3 F4 V87E18 VSRS

BOOFLP: -14.200
ELEVON: .000
SPORRK: 54.900
RUDDER: -15.000
-20.000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP 400.0000 IN. ZMRP 400.0000 IN. SCALE .0150

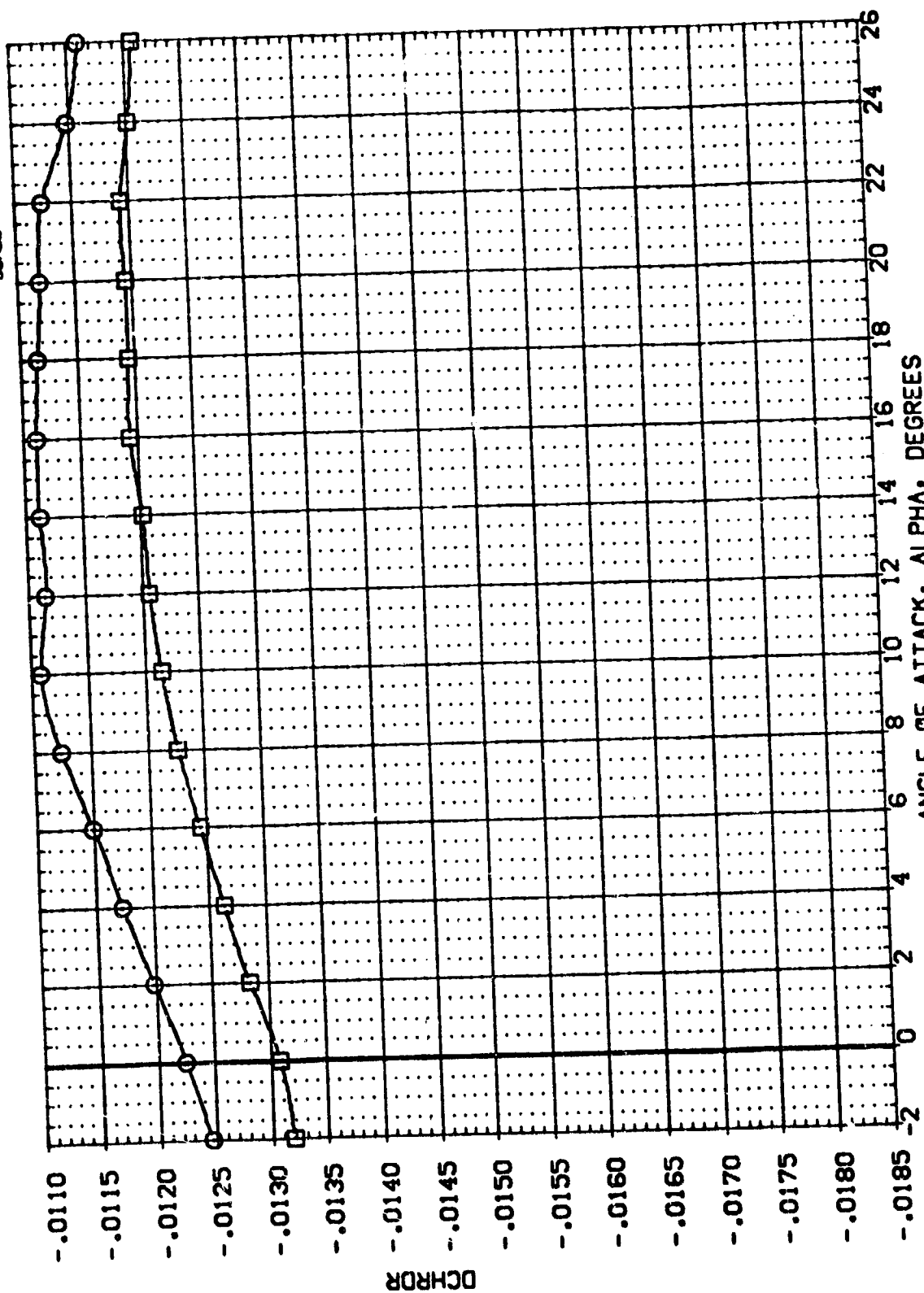


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHRD

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		SPDRK		RUDDER		REFERENCE INFORMATION	
[ABTC14]	[ABTC17]	AMES 66-706	0A43 B10 CS D7 M3 F4	0.000	0.000	54.900	-15.000	SREF	2650.0000	50. FT.	
		AMES 66-706	0A43 B10 CS D7 M3 F4	-14.200	-14.200	54.900	-20.000	LREF	474.8000	IN.	
								BREF	936.6300	IN.	
								XPRP	1076.4800	IN.	
								YPRP	400.0000	IN.	
								ZPRP	400.0000	IN.	
								SCALE	.0150	SCALE	

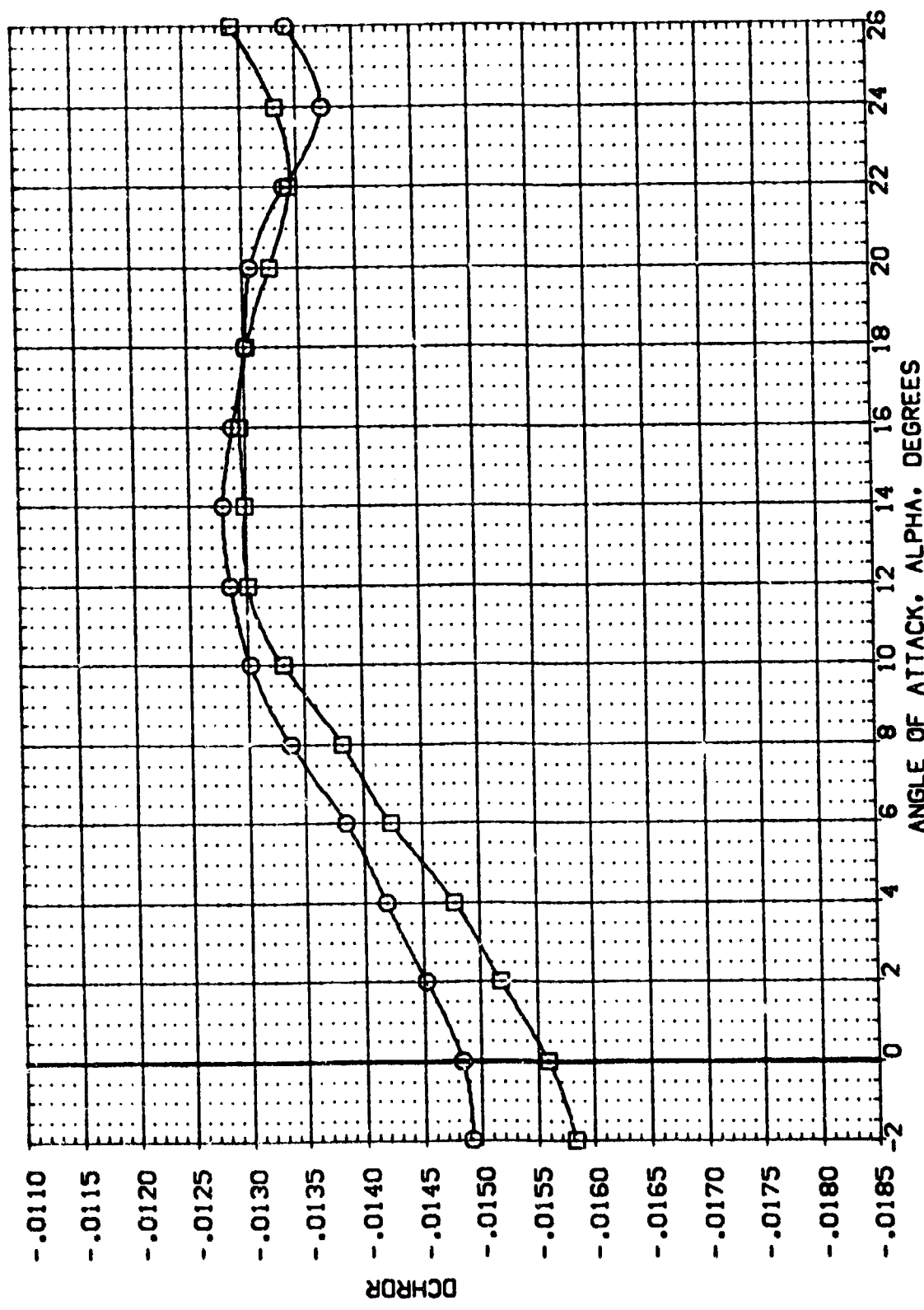


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHDRD

(B)MACH = .90



DATA SET SYMBOL: (ABTC14) ☐ (ABTC17) ☐

CONFIGURATION DESCRIPTION: AVES 66-706 OM43 B10 CS D7 K3 F4 W67E18 VSRS
AVES 66-706 OM43 B10 CS D7 K3 F4 W67E18 VSRS

BOOPLP: -14.200
ELEVON: .000
SPORBK: 54.900
RUDDER: -19.000
-20.000

REFERENCE INFORMATION: SREF: 2690.0000 SO.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XREF: 1076.4800 IN.
YREF: .0000 IN.
ZREF: 400.0000 IN.
SCALE: .0150

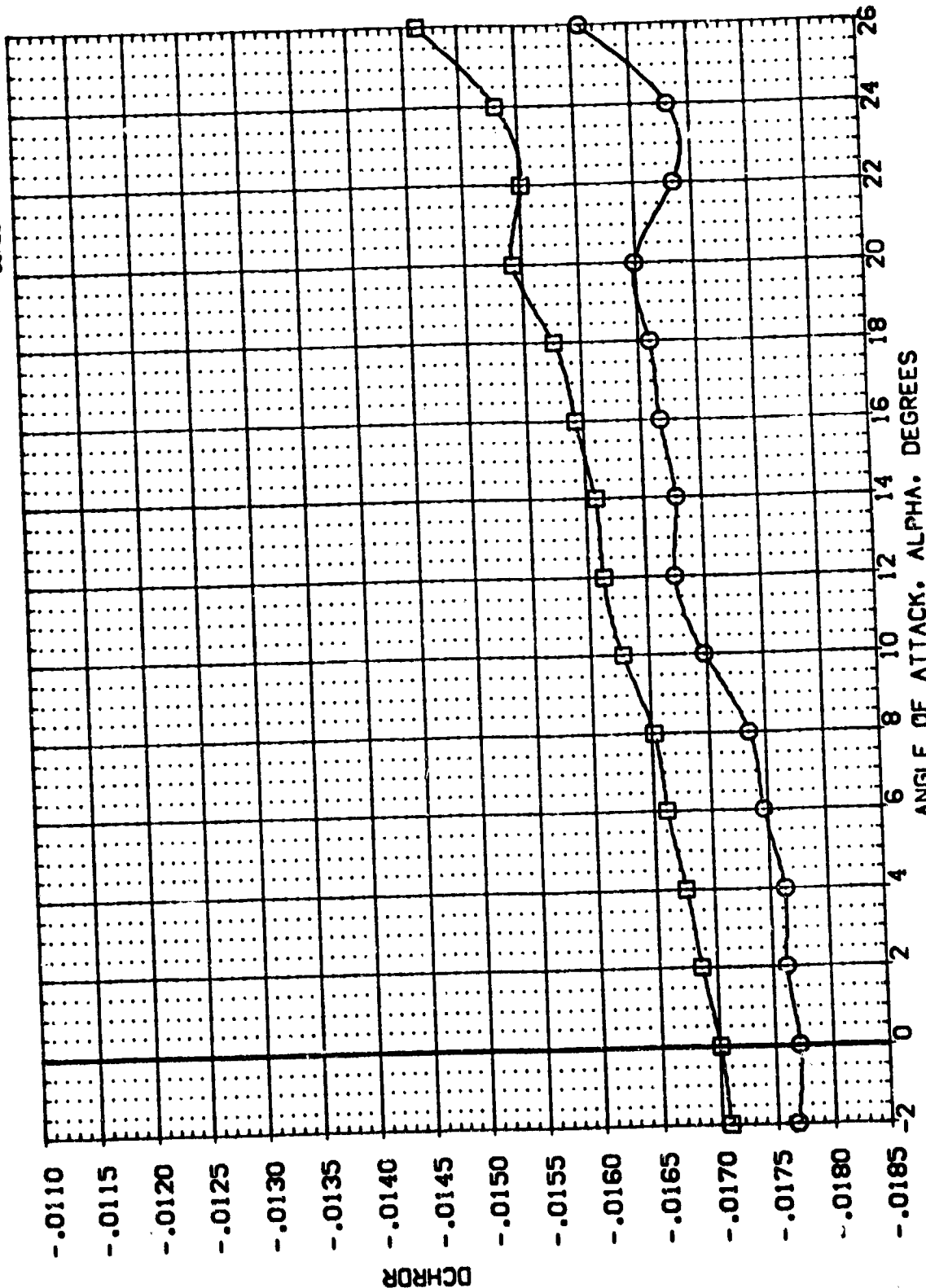


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHDR

(C)MACH = 1.20

DATA SET SYMBOL: (ABTC14) (ABTC17)

CONFIGURATION DESCRIPTION: APES 66-706 CM43 B10 CS D7 MG F4 V87E18 VSRS
APES 66-706 CM43 B10 CS D7 MG F4 V87E18 VSRS

BOOFUP: -14.200
ELEVON: .000
SPDRBK: 54.900
RUDDER: -15.000
SCALE: -20.000

REFERENCE INFORMATION: SREF: 2650.0000 SO.FT.
LREF: 474.8000 IN.
BREF: 936.6800 IN.
XREF: 1076.4800 IN.
YREF: .0000 IN.
ZREF: 400.0000 IN.
SCALE: .3150

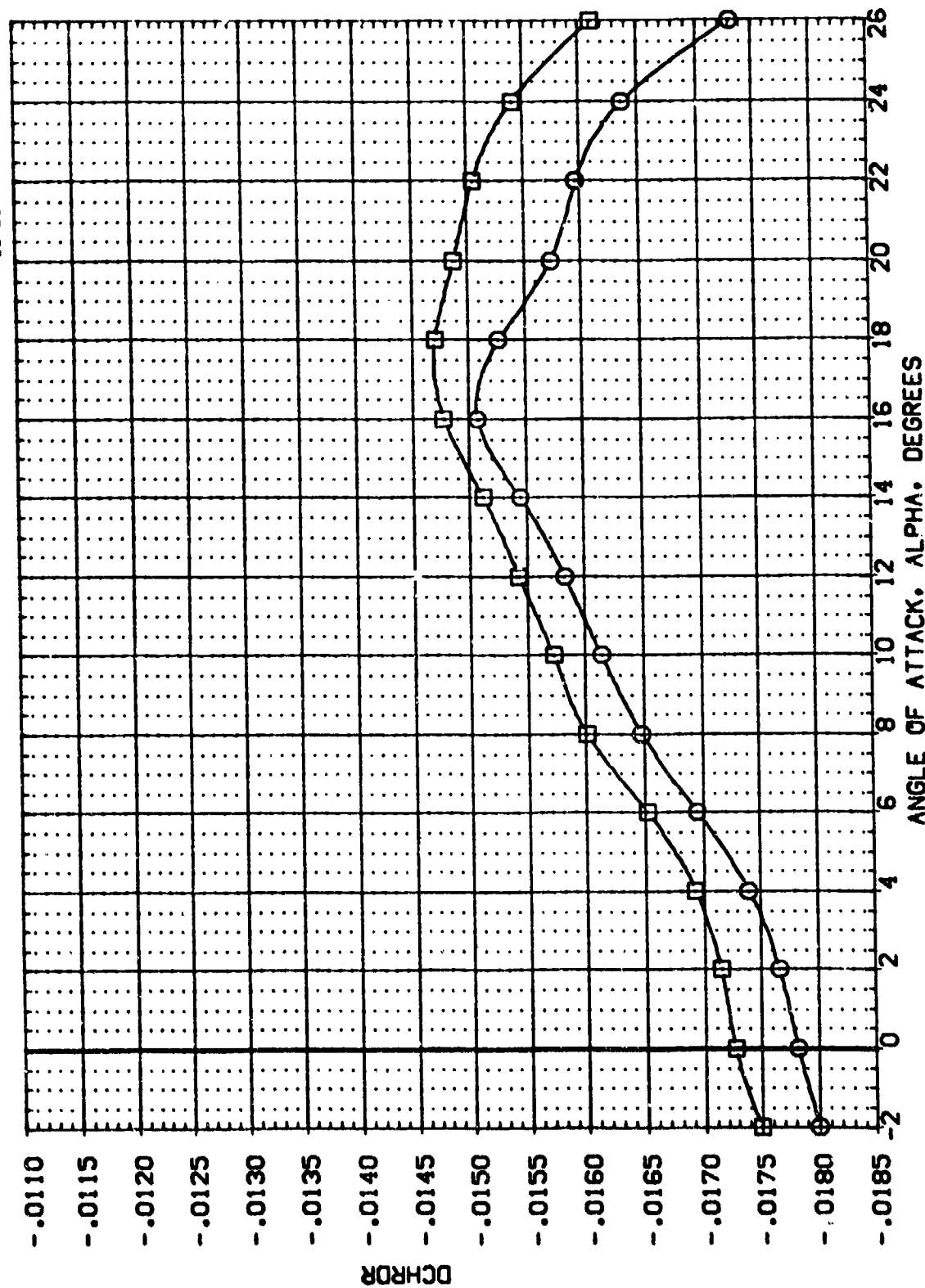


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHRRD

(DMACH = 1.50)

DATA SET SYMBOL: (ABTIC14) (ABTIC17)
 CONFIGURATION DESCRIPTION: AVES 66-706 8A43 810 CS 07 F4 V87E18 V955
 AVES 66-706 8A43 810 CS 07 F4 V87E18 V955
 BOOFLP: -14.200 -14.200
 ELEVON: .000 .000
 SPOBRK: 54.900 54.900
 RUDDER: -15.000 -20.000
 REFERENCE INFORMATION:
 SREF: 2690.0000 SO.FT.
 LREF: 474.8000 IN.
 BREF: 936.6800 IN.
 XMRP: 078.6800 IN.
 YMRP: .0000 IN.
 ZMRP: 400.0000 IN.
 SCALE: .0150 SCALE

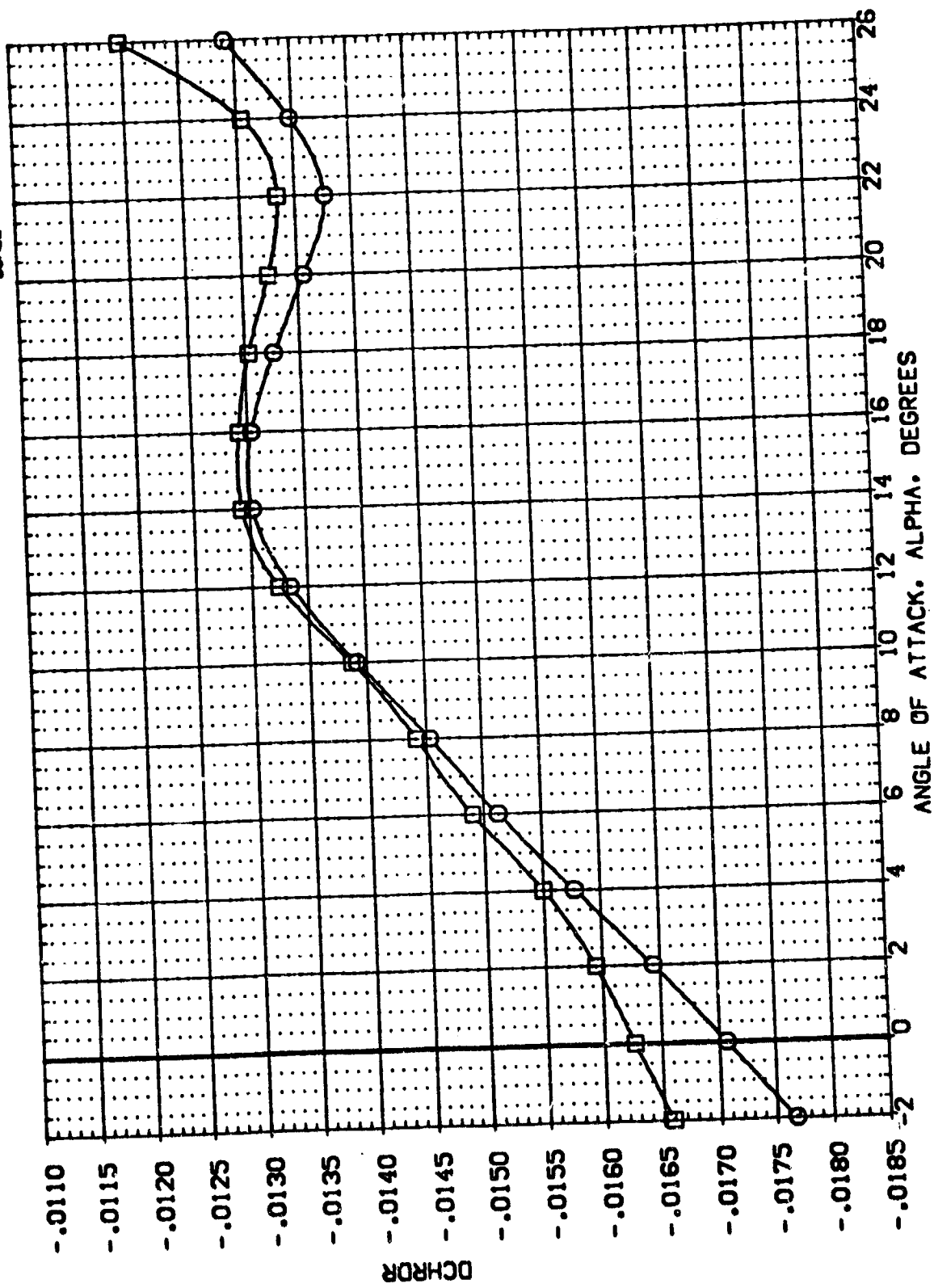


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHRRD

(E)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOEFLP	ELEVON	SPORBR	RUDDER	REFERENCE INFORMATION
(ASTD17)	AVES 66-706 0M13 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-15.000	SREF 2690.0000 SQ.FT.
(ASTD17)	AVES 66-706 0M13 810 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.900	-20.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.1600 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150

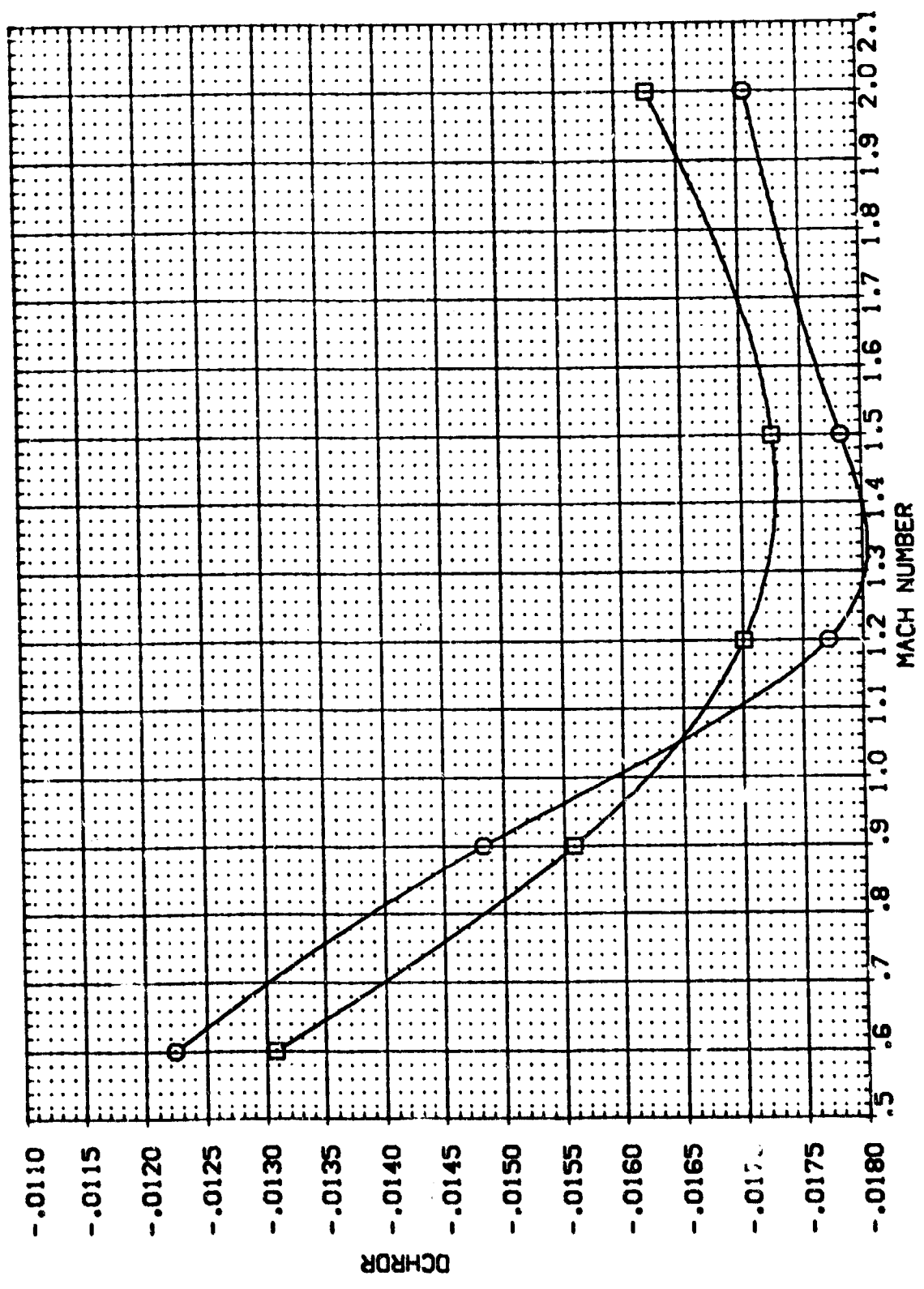


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHRRD

(A) ALPHA = .00

DATA SET SYMB.	CONF. IQUATION DESCRIPTION	BOOFLP	ELEVON	SPOBRK	RLODER	REFERENCE INFORMATION
[ABTD14]	AVES 66-706 6M43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-15.000	SREF 2690.0000 SQ.FT.
[ABTD17]	AVES 66-706 6M43 B10 CS D7 M3 F4 V87E18 VSRS	-14.200	.000	54.500	-20.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						YREF 1076.4800 IN.
						ZREF .0000 IN.
						SCALE .0150

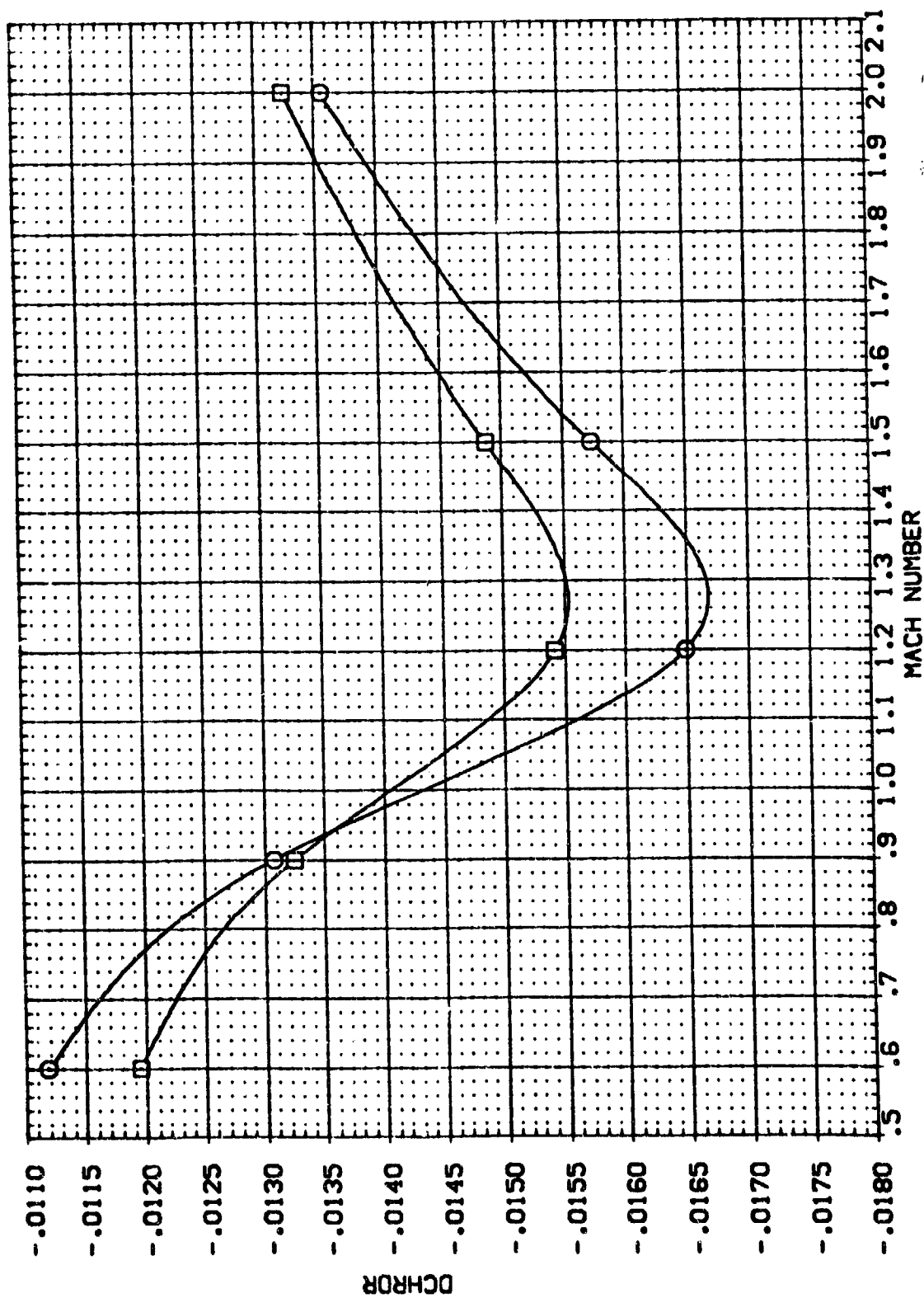


FIG. 27 RUDDER HINGE MOMENT DERIVATIVES - DCHRRD

(C) ALPHA = 20.00



DATA SET SYMBOL: (A8T004) (A8T021) CONFIGURATION DESCRIPTION: AYES 66-706 D413 B10 CS 07 HG F4 W87E18 VSRS AYES 66-706 D413 B10 CS 07 HG F4 W87E18 VSRS

BETA	BOOF LP	SPOBAY	RUDDER	REFERENCE INFORMATION
.000	-14.200	54.900	.000	SREF 2650.0000 SO.FT.
5.000	-14.200	54.900	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XTRP 1076.4800 IN.
				YTRP .0000 IN.
				ZTRP 400.0000 IN.
				SCALE .0150

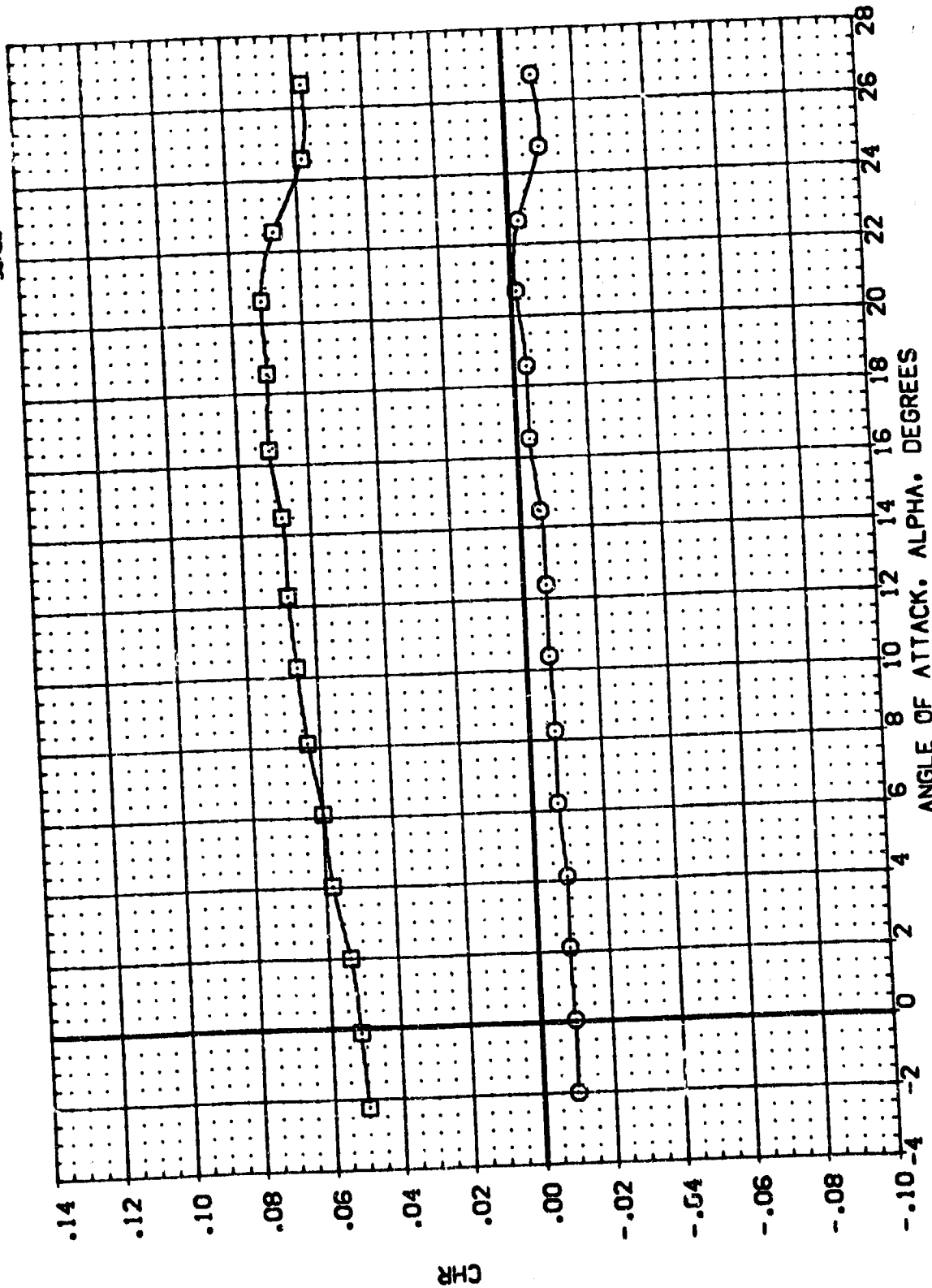


FIG. 28 RUDDER HINGE MOMENT DUE TO SIDESLIP

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOOF LP	SPDRX	RUDDER	REFERENCE INFORMATION
(A8T004)	AMES 66-706 0A43 B10 CS 07 M3 F4 V87E18 V5R5	.000	-14.200	54.500	.000	SREF 2690.0000 50. FT.
(A8T021)	AMES 66-706 0A43 B10 CS 07 M3 F4 V87E18 V5R5	5.000	-14.200	54.500	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XTRP 1076.4800 IN.
						YTRP .0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150

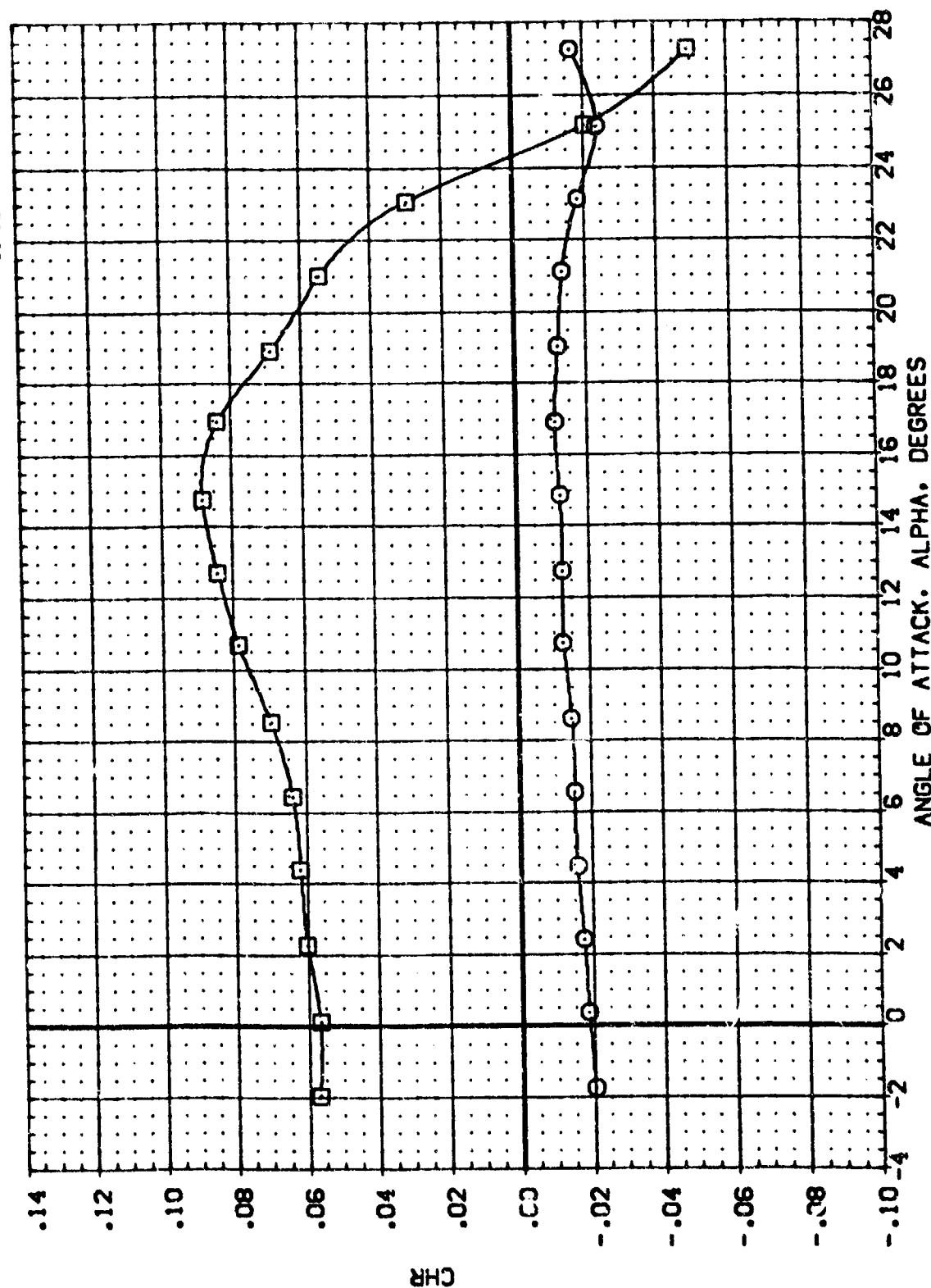


FIG. 28 RUDDER HINGE MOMENT DUE TO SIDESLIP

(B)MACH = .91



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	800FLP	SP00RX	RUDDER	REFERENCE INFORMATION:
(ABT004)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V3RS	.000	-14.200	54.900	.000	SREF 2690.0000 50.FT.
(ABT021)	AVES 66-706 DA13 B10 CS D7 M3 F4 V87E18 V3RS	5.000	-14.200	54.900	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XPRP 1076.4800 IN.
						YPRP 400.0000 IN.
						ZPRP 400.0000 IN.
						SCALE .0150

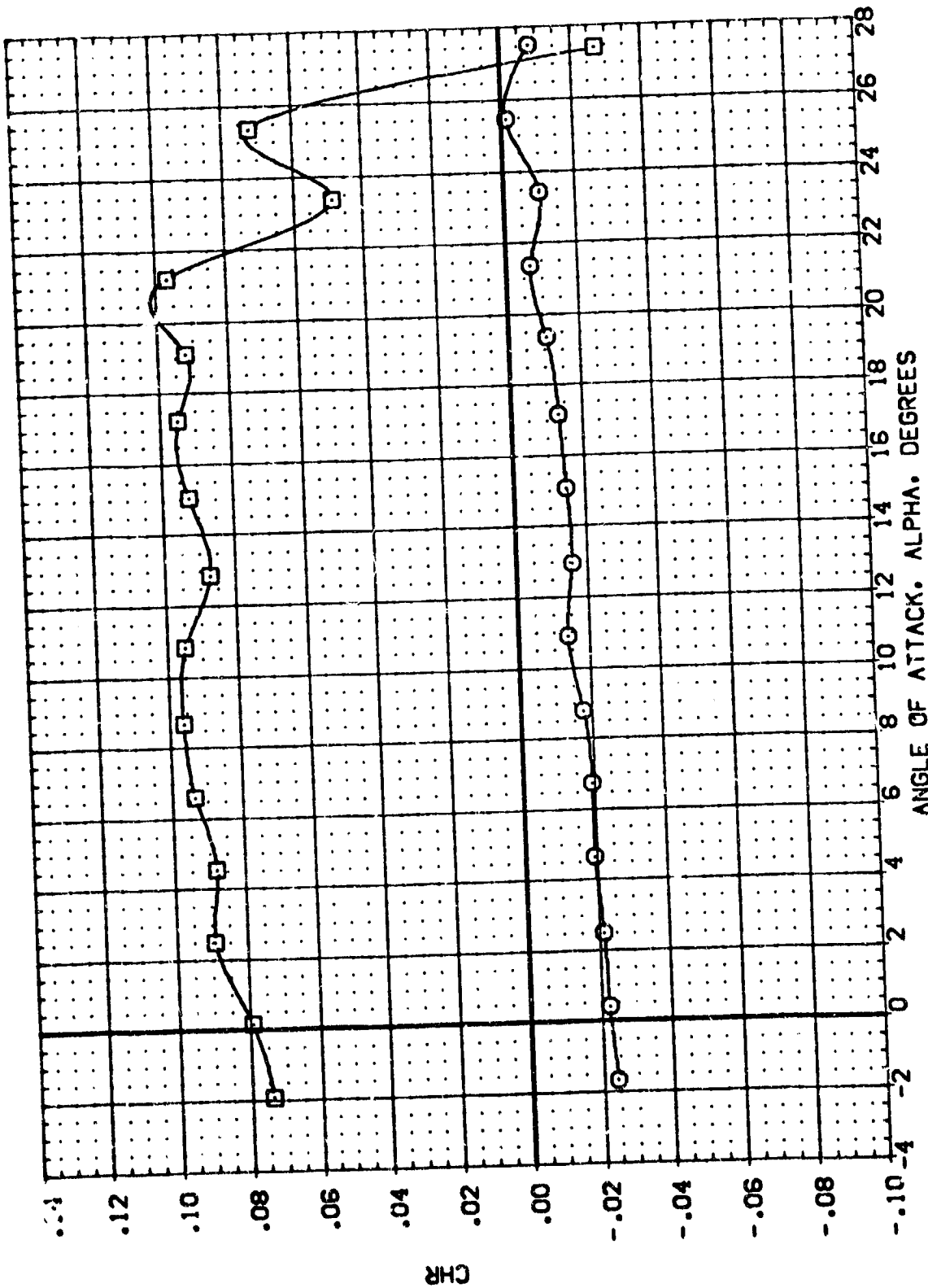
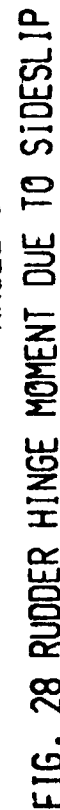


FIG. 28 RUDDER HINGE MOMENT DUE TO SIDESLIP

(C)MACH = 1.20

REFERENCE INFORMATION	
SREF	2690 0000 SQ.FT.
REF	474.8000 IN.
LREF	936.6800 IN.
XTRP	1076.4800 IN.
YTRP	0000 IN.
ZTRP	400.0000 IN.
SCALE	.0150 SCALE



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DATA SET SYMBOL: (ABT004) (ABT021)

CONFIGURATION DESCRIPTION: AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS AVES 66-706 0A43 B10 CS D7 M3 F4 V87E18 VSRS

BETA: .000 5.000

BOOFLP: -14.200 -14.200

SPOBRK: 54.907 54.903

RUDDER: .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SQ.FT. LREF 474.6000 IN. BREF 936.6900 IN. XWRP 1076.1800 IN. YWRP .0000 IN. ZWRP 400.0000 IN. SCALE .0150

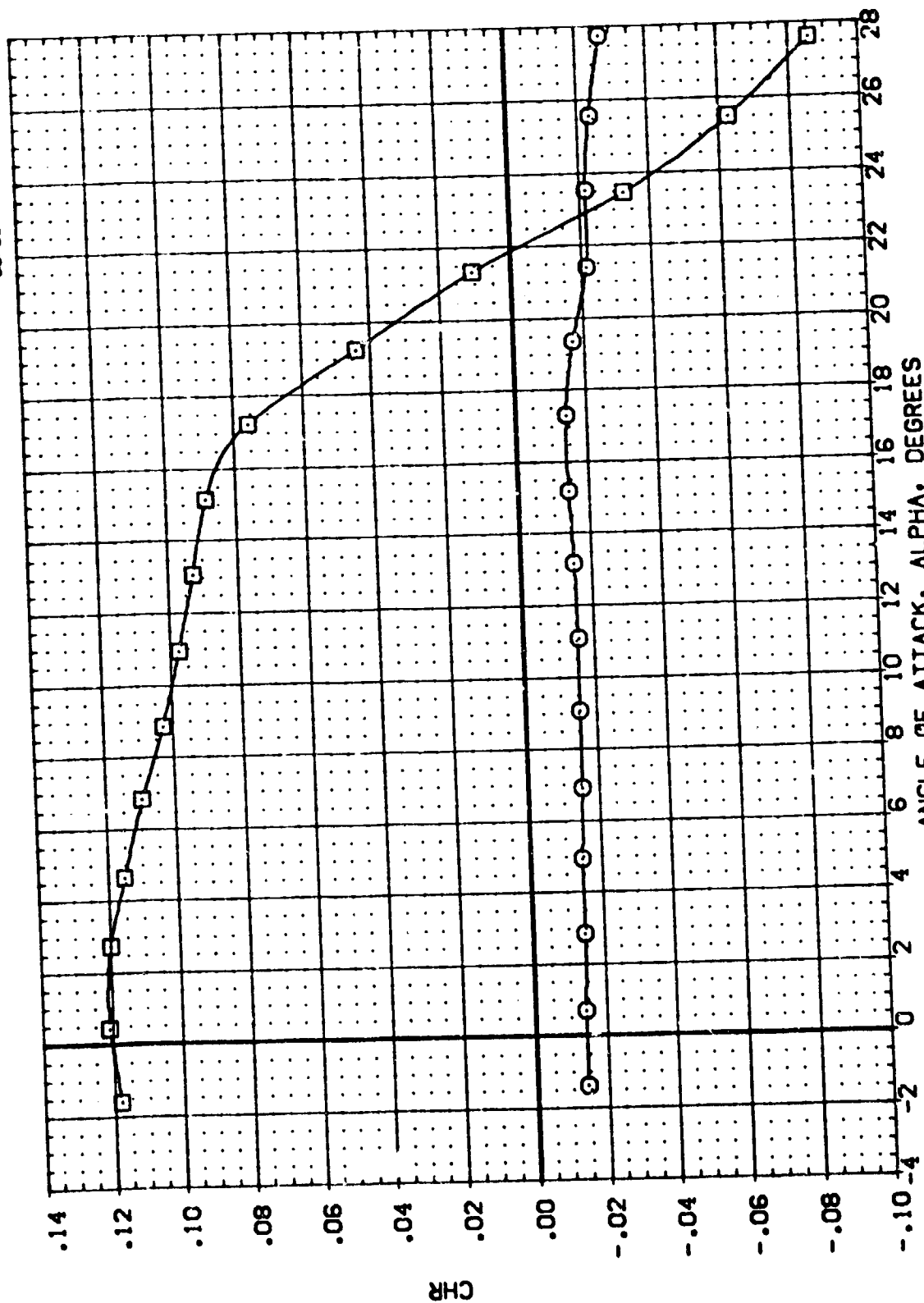


FIG. 28 RUDDER HINGE MOMENT DUE TO SIDESLIP

(E)MACH = 2.00

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5 (ABTC21)

SYMBOL	MACH	BETA	PARAMETRIC VALUES		REFERENCE INFORMATION	
○	.600	5.000	ELEVON	.000	SREF	2690.0000
		.000	SPDBRK	54.900	LREF	474.8000
		-14.200	RUDDER	.000	BREF	936.6800
		.000	ELVN-L	.000	XPRP	1076.1800
		.000	ELVN-R	.000	YPRP	.0000
					ZPRP	400.0000
					SCALE	.0150

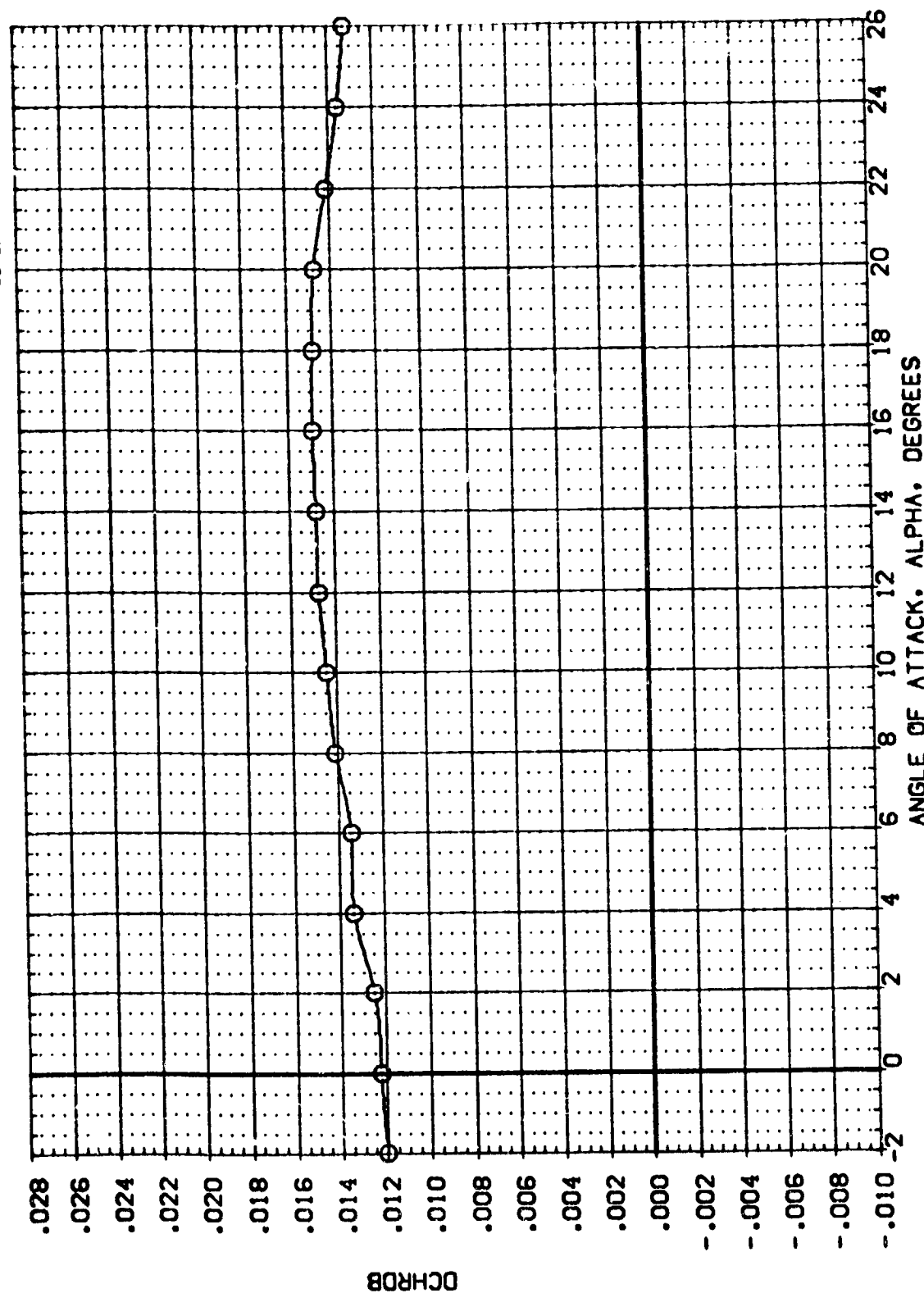


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB



(ABTC21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL
O

MACH .500

PARAMETRIC VALUES

BETA	5.000	ELEVON	.000
AILERON	.000	SPDBRK	54.500
BODTLP	-14.200	RUDDER	.000
ELVN-L	.000	ELVN-R	.000

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	474.8000	
BREF	936.6800	
XPRP	1076.4800	
YPRP	.0000	
ZPRP	400.0000	
SCALE	.0150	

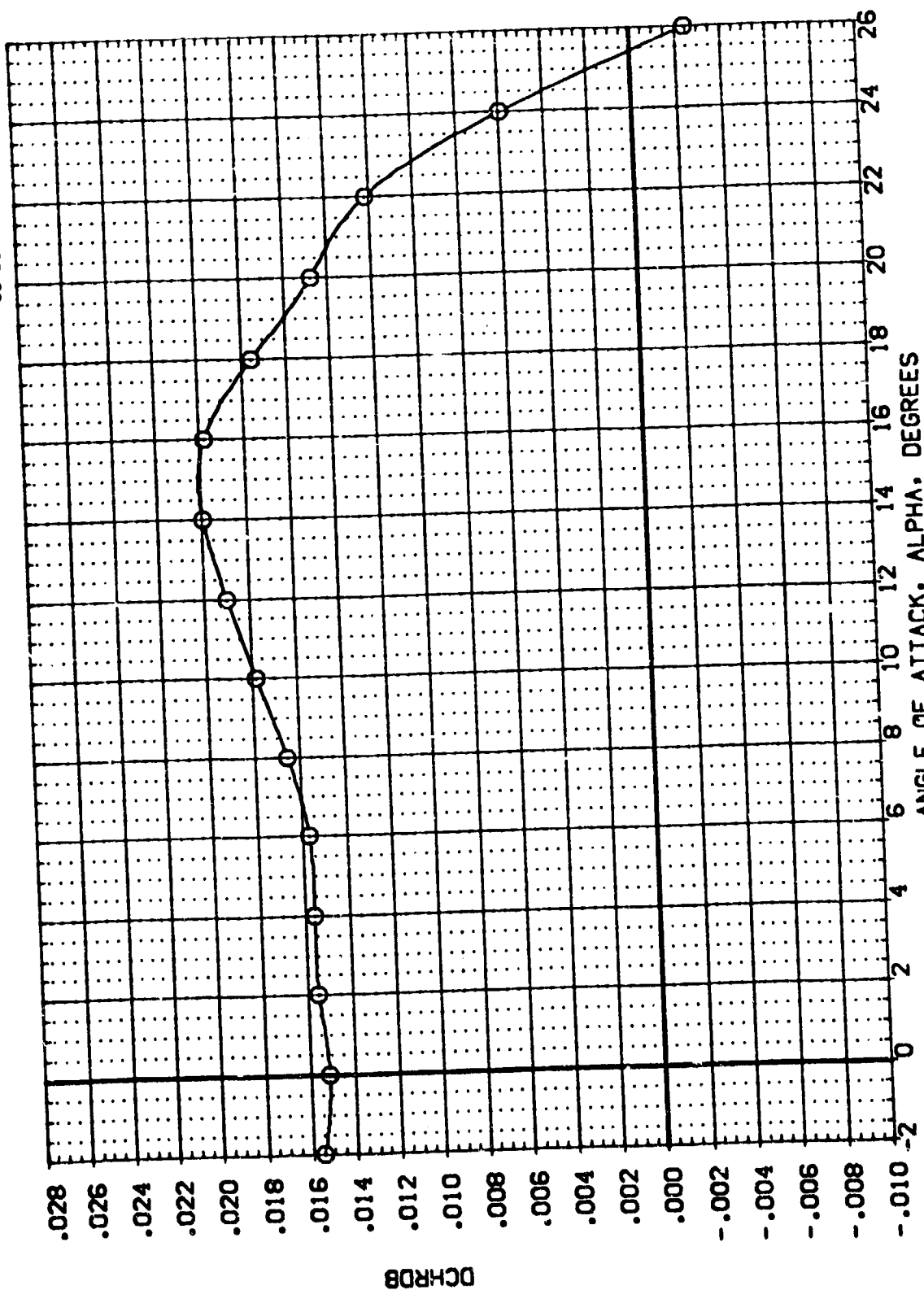


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHRD

(ABTC21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

SYMBOL MACH BETA
 ○ 1.200 5.000
 AIRLON .000
 BODFLP -14.200
 ELVN-L .000

PARAMETRIC VALUES
 ELEVON .000
 SPOBRK 54.900
 RUDDER .000
 ELVN-R .000

REFERENCE INFORMATION
 SREF 2690.0000
 LREF 474.8000
 BRREF 936.6800
 XPRP 1076.4800
 YPRP .0000
 ZPRP 400.0000
 SCALE .0150

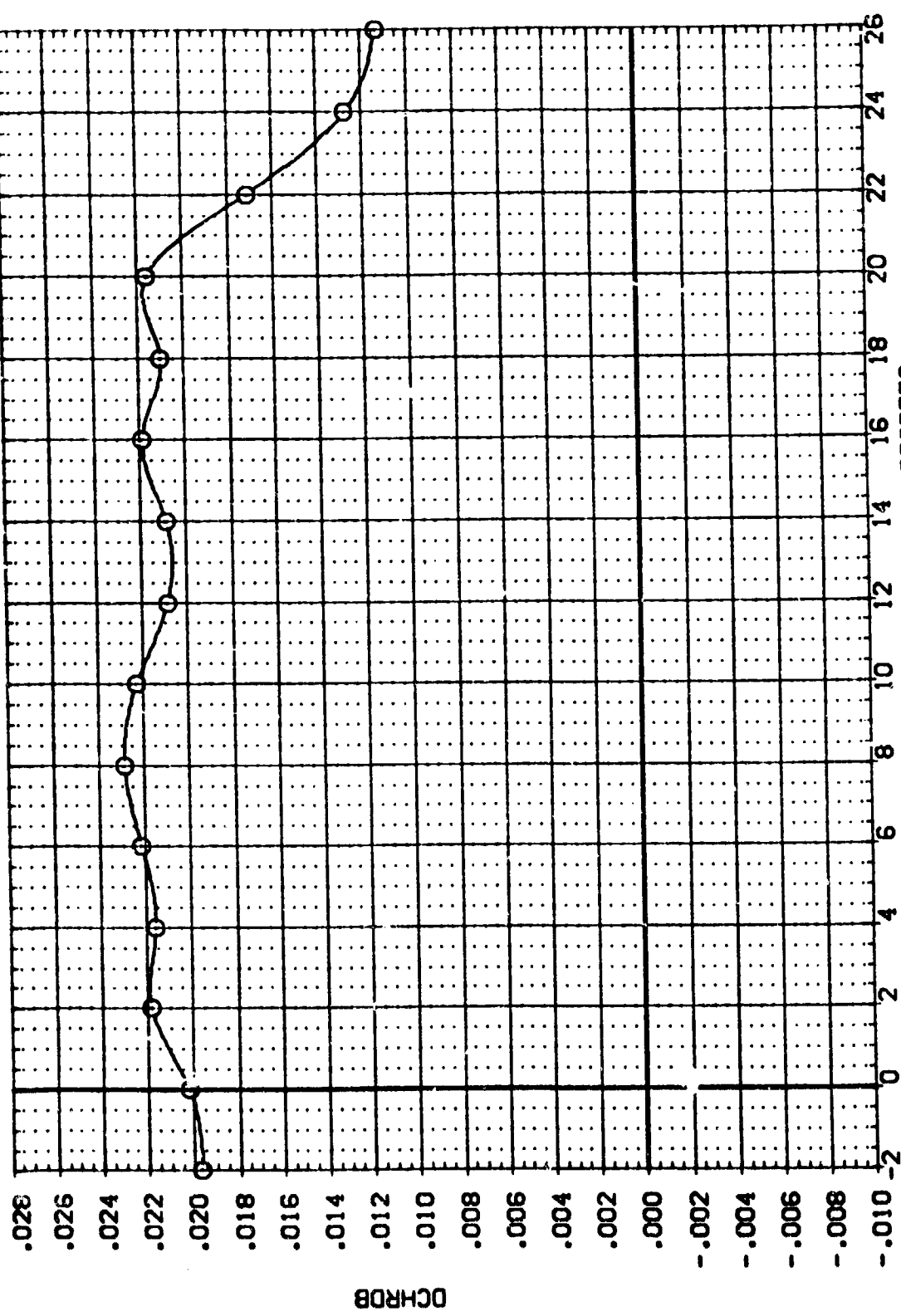


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHRD



(ABTC21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

SYMBOL



MACH

1.500

BETA

5.000

PARAMETRIC VALUES

ELEVON

.000

SPOROK

54.900

RLJ 3R

.000

ELVN-R

.000

ELVN-L

.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 IN.

BREF 936.6800 IN.

XREF 1076.1800 IN.

YREF .0000 IN.

ZREF 400.0000 IN.

SCALE .0150

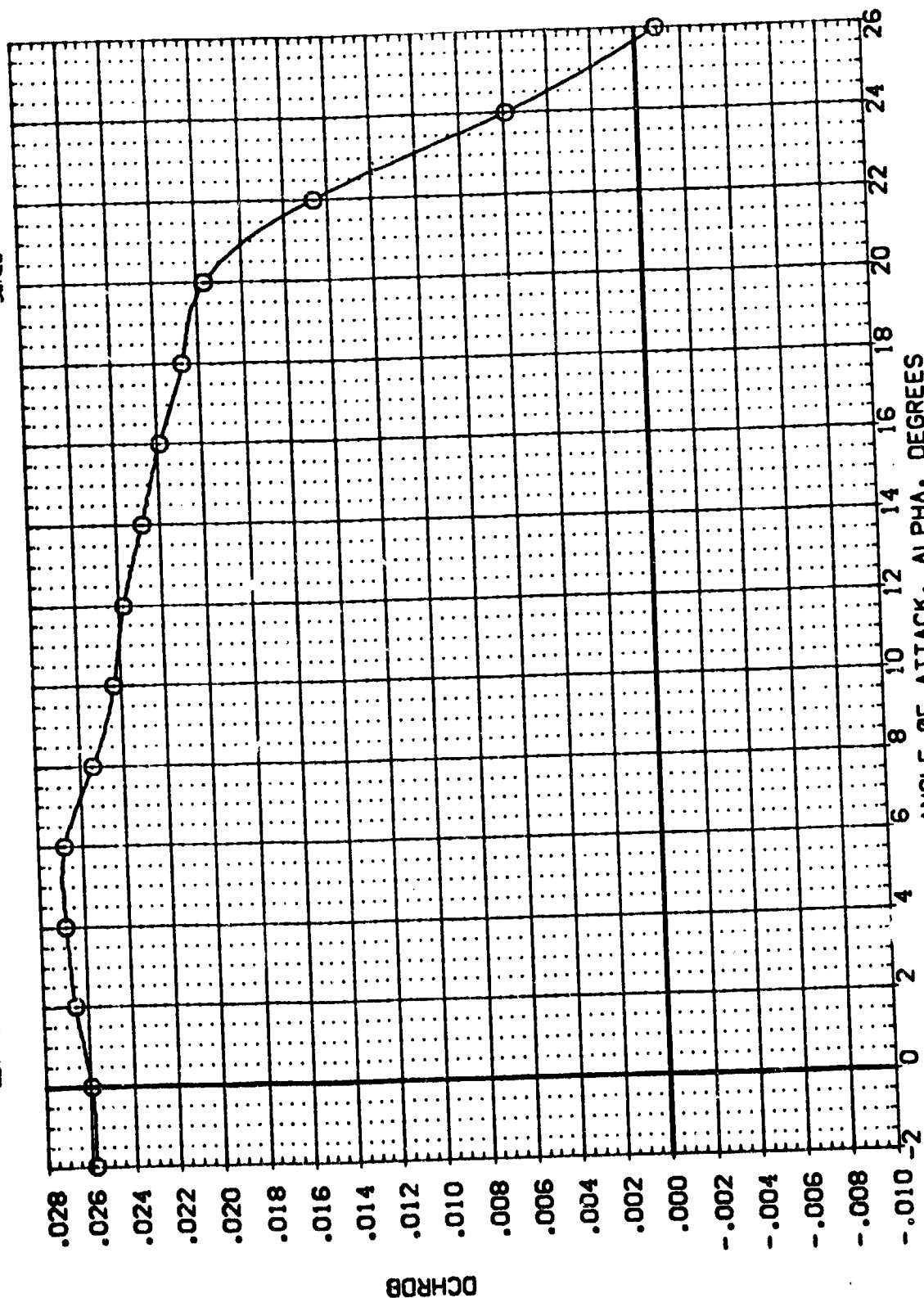


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB

(ABIC21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XTRP 1076.4800 IN.
 YTRP 0.0000 IN.
 ZTRP 400.0000 IN.
 SCALE .0150

PARAMETRIC VALUES
 BETA 5.000 ELEVON .000
 AILRON .000 SPOBRK \$4.500
 BOOFLP -14.200 RUDDER .000
 ELVN-L .000 ELVN-R .000

SYMBOL MACH
 O 2.000

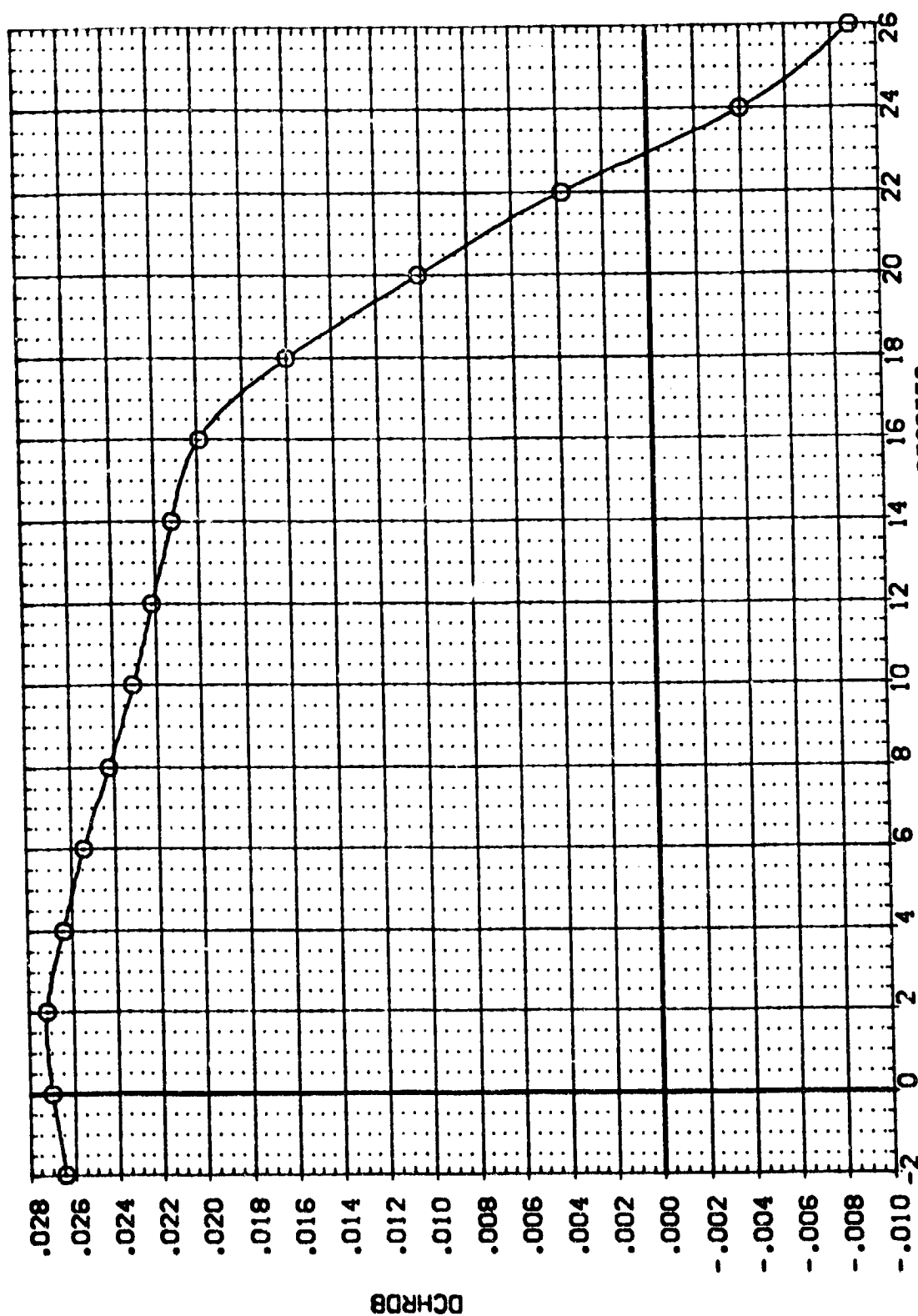


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB

AMES 66-706 0A43 B10 C5 07 M3 F4 W87E18 VSR5

REFERENCE INFORMATION	
SNEY	2650.0000
LINE	474.8000
SNEY	526.6800
X499	1076.4800
Y499	0.0000
Z499	400.0000
SCALE	.0150

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES
○	.000	5.000	ELEVON
		.000	SPDBRK
		-14.200	RUDDER
		.000	ELVN-R
			ELVN-L
			.000
			54.900
			.000
			.000



FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB

(ABTD21)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 VSR5

SYMBOL
O

ALPHA
10.000

PARAMETRIC VALUES

BETA	5.000	ELEVON	.000
AILERON	.000	SPOILER	54.900
BOOFLEP	-14.200	RUDDER	.000
ELVN-L	.000	ELVN-R	.000

REFERENCE INFORMATION

SREF	2650.0000	SG.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
YREF	1076.4800	IN.
ZREF	400.0000	IN.
SCALE	.0150	SCALE

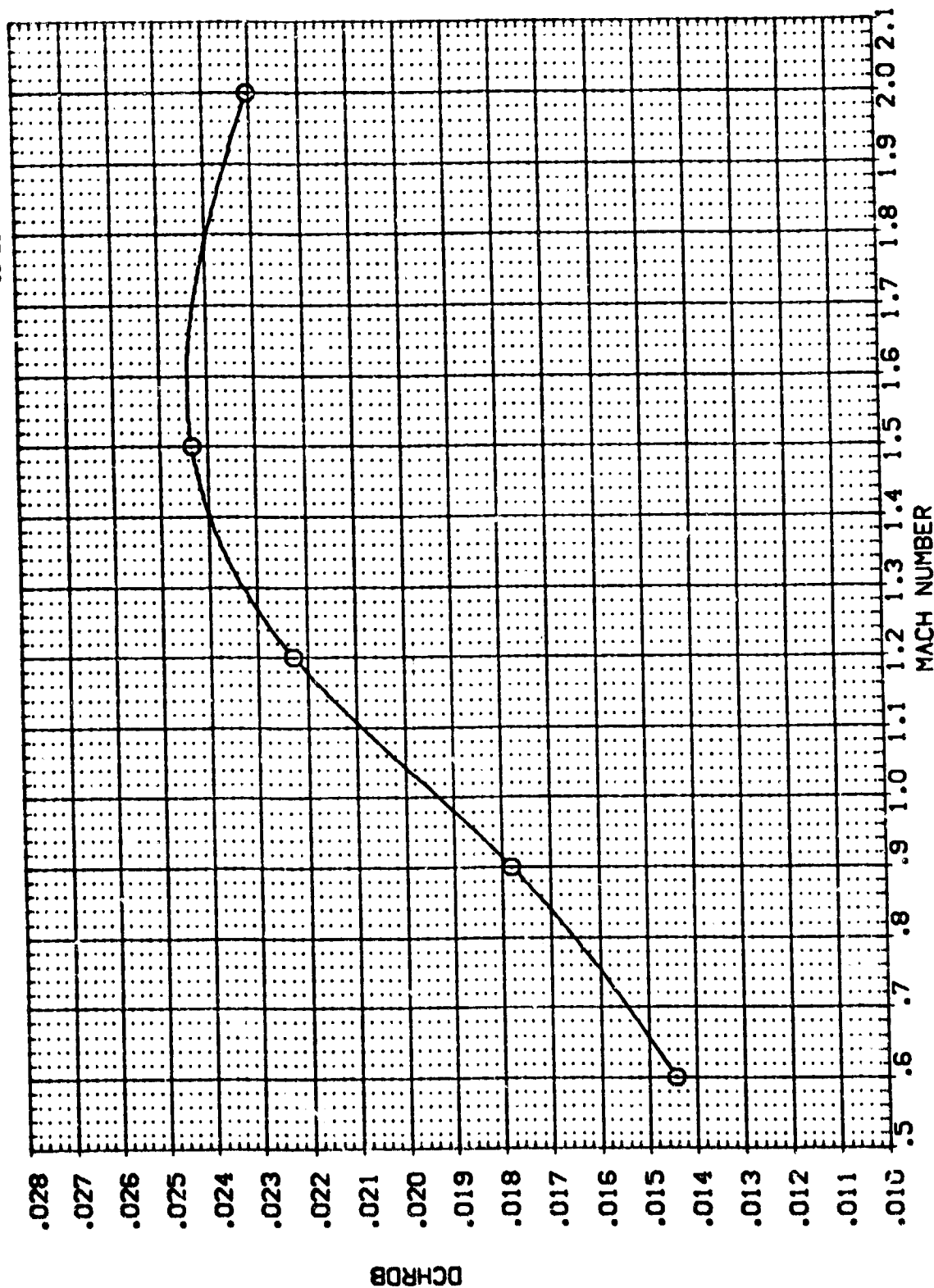


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB



(ABT021)

AMES 66-706 0A43 B10 C5 D7 M3 F4 W87E18 V5R5

SYMBOL
○

ALPHA
20.000

BETA
5.000

AILRON
-14.200

SPDRK
.000

RUDDER
.000

ELVN-L
.000

REFERENCE INFORMATION
SREF 2650.0000
LREF 474.8000
BREF 908.6800
XPRP 1076.4800
YPRP 400.0000
ZPRP 400.0000
SCALE .0150

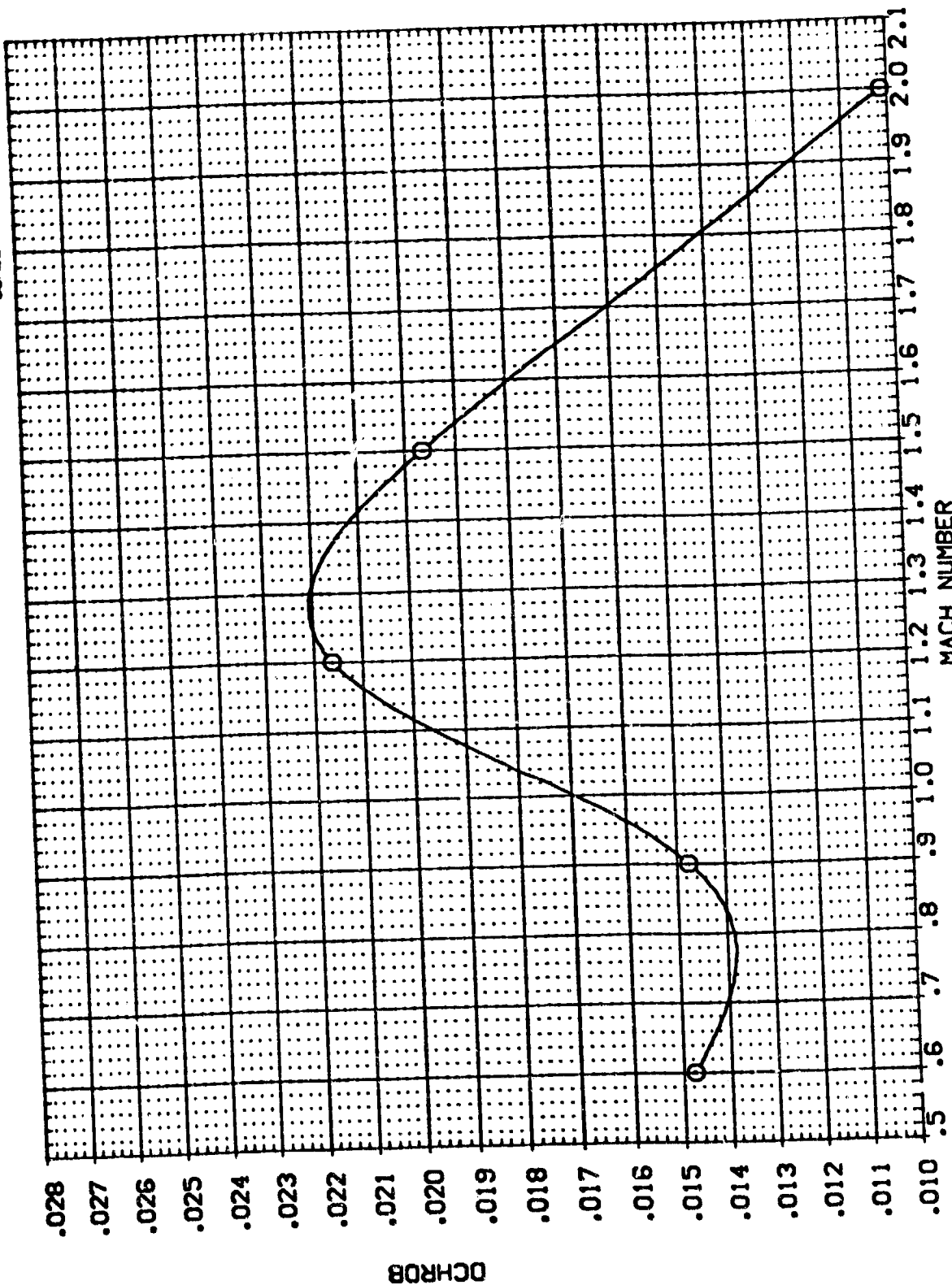


FIG. 29 RUDDER HINGE MOMENT DERIVATIVES - DCHROB

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		BODFLP		SPDBRK		RUDDER		REFERENCE INFORMATION	
[A8T020]	[A8T019]	AVES 66-706	DA43 B10 CS D7	MG F4	V87E18	V5RS	.000	-14.200	54.900	.000	.000	SREF	2690.0000
		AVES 66-706	DA43 B10 CS D7	MG F4	V87E18	V5RS	10.000	-14.200	54.900	.000	.000	LREF	474.8000
												SREF	936.6800
												YMRP	1076.4800
												ZMRP	400.0000
												SCALE	.0150

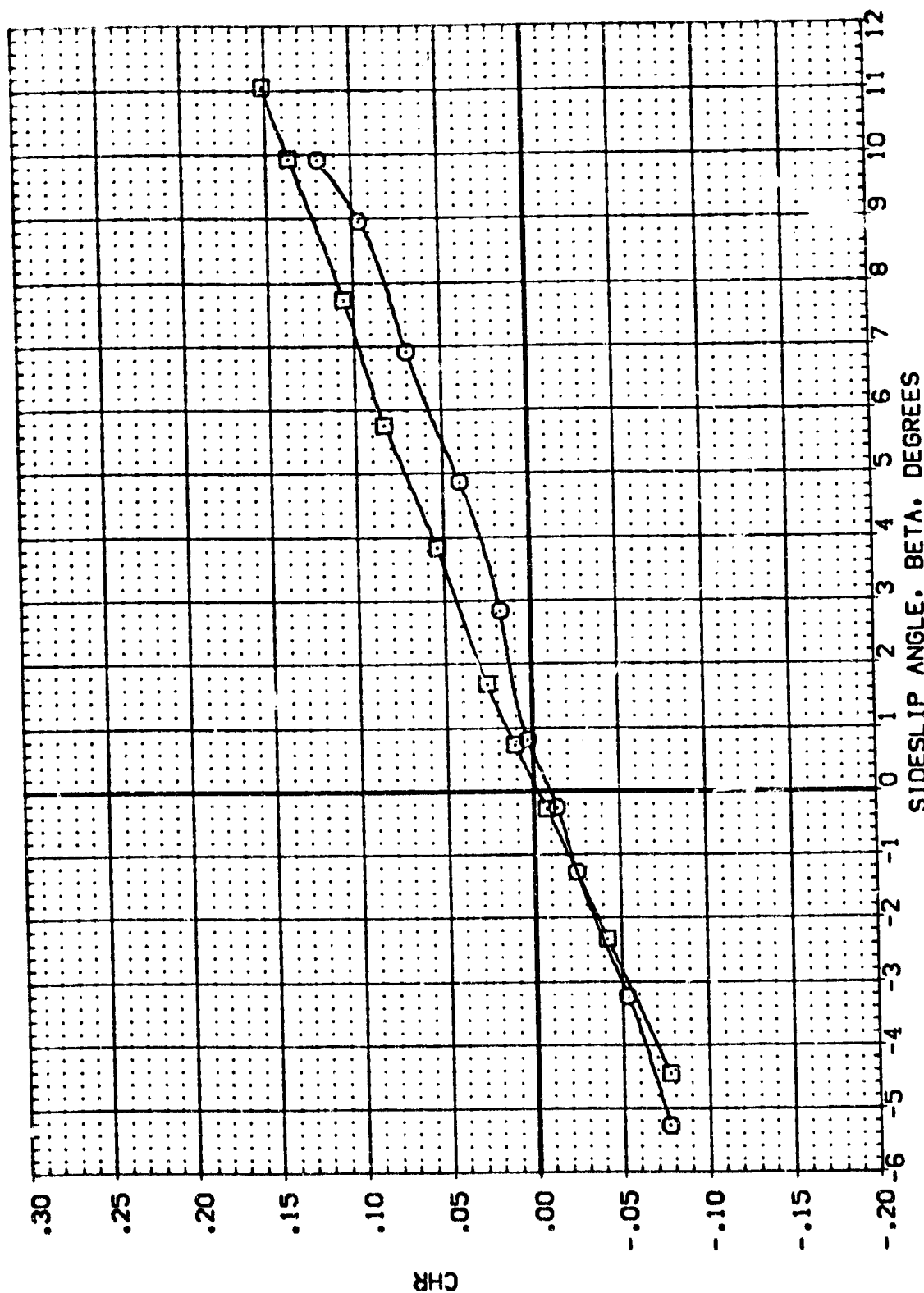


FIG. 30 RUDDER HINGE MOMENT CHARACTERISTICS WITH SIDESLIP

(A)MACH = .60

DATA SET SYMBOL: (A81020) (A81019)

CONFIGURATION DESCRIPTION: AMES 66-706 DA13 B10 CS D7 M3 F4 W87E18 VSR5
AMES 66-706 DA13 B10 CS D7 M3 F4 W87E18 VSR5

ALPHA: .000
10.000

BOOFLP: -14.200
-14.200

SPOBRK: 54.900
54.900

RUDDER: .000
.000

REFERENCE INFORMATION:
SREF: 2690.0000 SQ.FT.
LREF: 474.8000 IN.
BREF: 936.6000 IN.
XPRP: 1076.4800 IN.
YPRP: .0000 IN.
ZPRP: 400.0000 IN.
SCALE: .0150

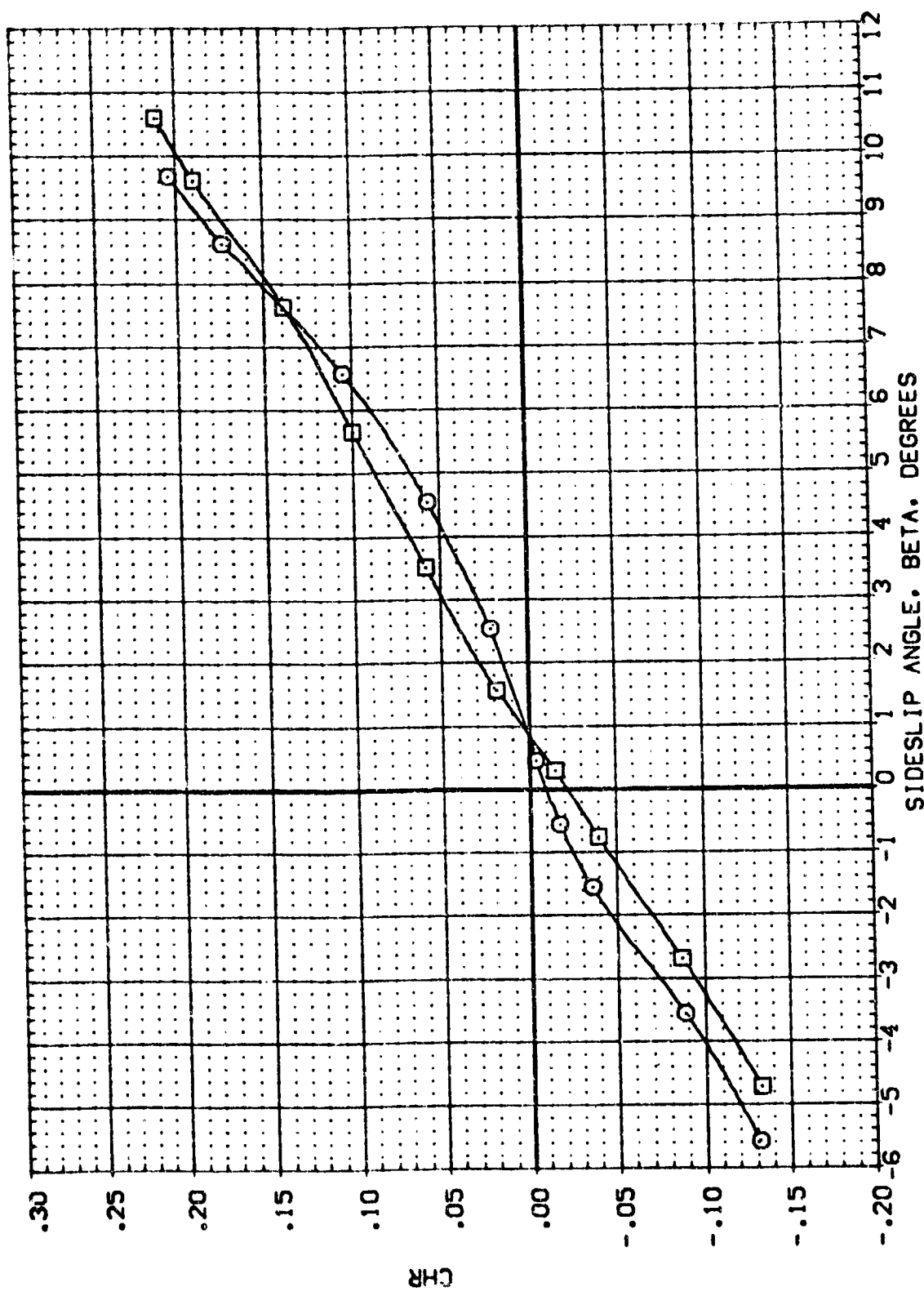


FIG. 30 RUDDER HINGE MOMENT CHARACTERISTICS WITH SIDESLIP

(C)MACH = 1.20



DATA SET SYMB.										CONFIGURATION DESCRIPTION		ALPHA		BODFLP		SPDRBK		RUDDER		REFERENCE INFORMATION			
(A8T020)	(A8T019)	(A8T018)	(A8T017)	(A8T016)	(A8T015)	(A8T014)	(A8T013)	(A8T012)	(A8T011)	AVES	66-705	DA43	B10	CS	D7	M3	F4	V87E18	V595	SREF	2630.0000	SQ.FT.	
										AVES	66-705	DA43	B10	CS	D7	M3	F4	V87E18	V595	LINEF	474.8000	IN.	
																				SREF	936.6800	IN.	
																				XTRAP	1076.4600	IN.	
																				YTRAP	400.0000	IN.	
																				ZTRAP	400.0000	IN.	
																				SCALE	.0150	SCALE	

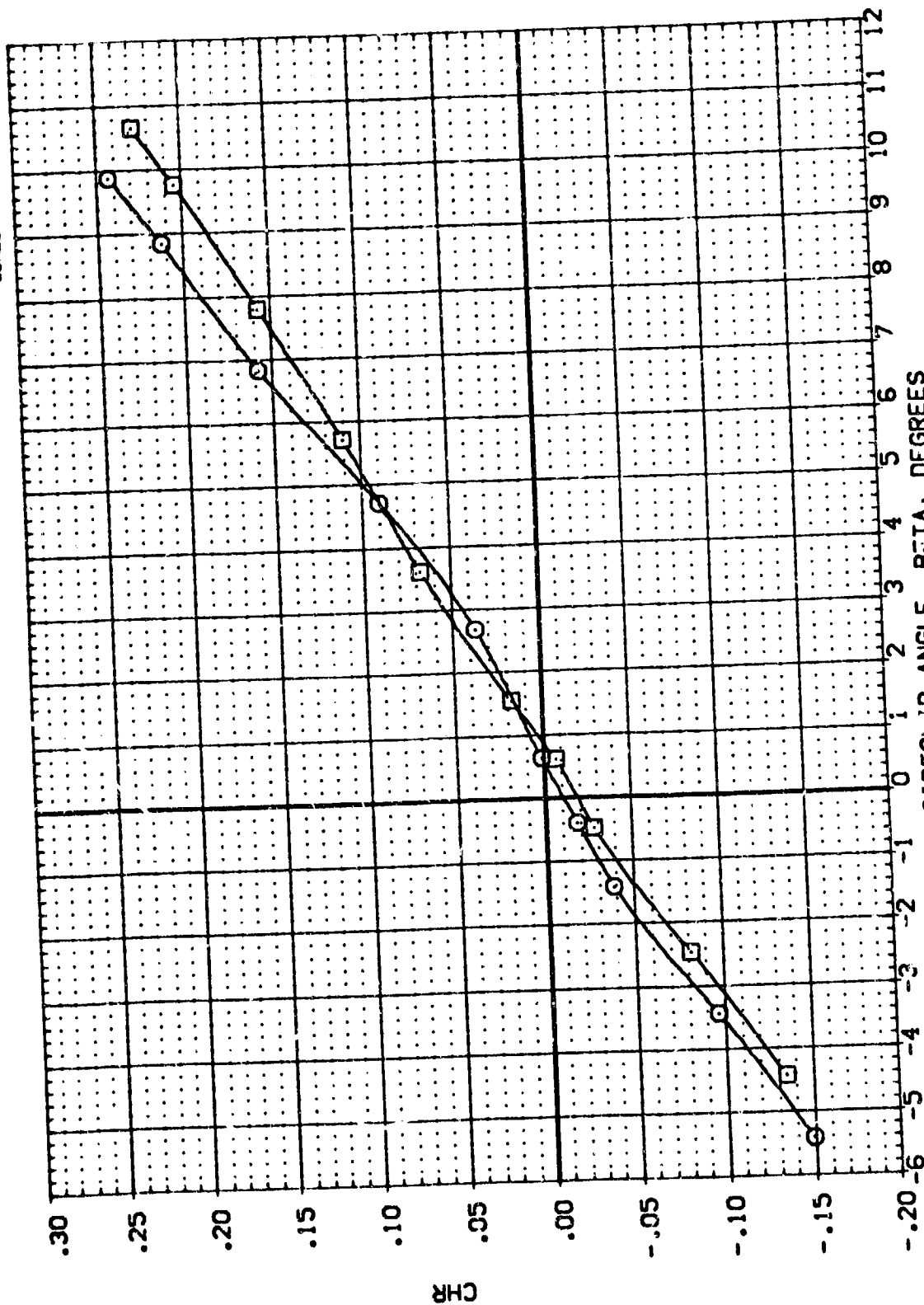


FIG. 30 RUDDER HINGE MOMENT CHARACTERISTICS WITH SIDESLIP

(C)MACH = 1.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		BODDLP		SPDBRK		RUDDER		REFERENCE INFORMATION	
(AB702C)	□	AVES 66-706	DA43 B10 CS 7	MG F4	V87E18	VSR5	0.00	-14.200	54.900	.000	SREF	2690.0000	SD.F.
(AB7019)	□	AVES 66-706	DA43 B10 CS 07	MG F4	V87E18	VSR5	10.000	-14.200	54.900	.000	LREF	474.8000	IN.
											BREF	936.6800	IN.
											XTRP	1076.4800	IN.
											YTRP	400.0000	IN.
											ZTRP	400.0000	IN.
											SCALE	.0150	SCALE

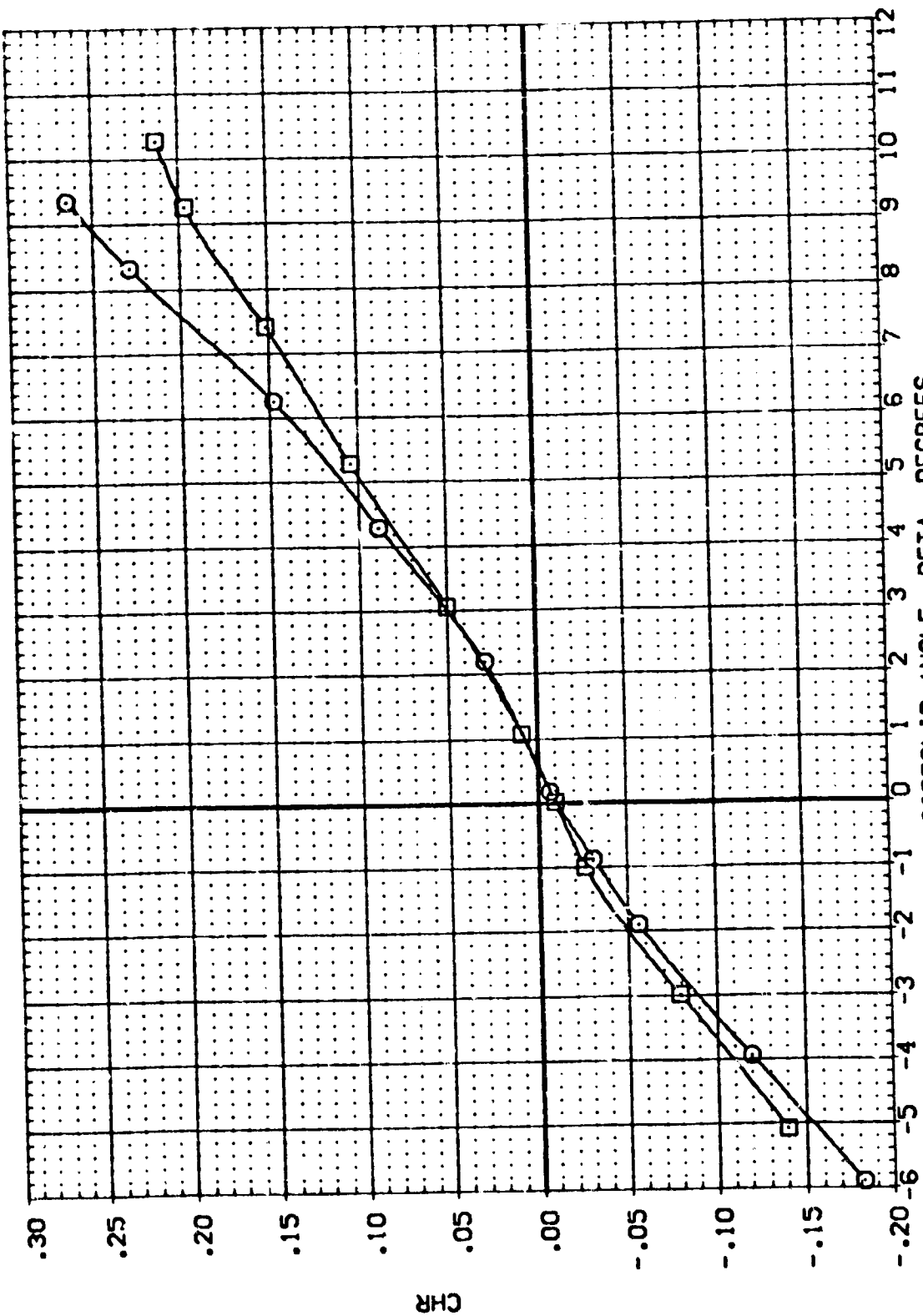


FIG. 30 RUDDER HINGE MOMENT CHARACTERISTICS WITH SIDESLIP

(E)MACH = 2.00

APPENDIX
TABULATED SOURCE DATA

Plotted data listings available on request
from the Data Management System.

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DATE 26 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0443)

ARES 66-706 0443 810 C5 D7 M3 P4

PAGE 1

(RST001) (24 AUG 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 56. FT. 2MRP = 1076.4000 IN.
 LREF = 474.6000 IN. 1MRP = .0000 IN.
 BREF = 936.8000 IN. 2MRP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 BOOPLP = -14.800

RUN NO. 3/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLM	L/D	KCP/L
.601	-2.045	-.05700	.04940	.01480	.04750	.01270	.03490	-.05970	.00640	-.015400	.99930
.601	-.006	-.04690	.04620	.01250	.04620	.01250	.03370	-.04690	.01230	-1.01700	.75360
.601	2.112	-.03360	.04350	.01200	.04470	.01310	.03150	-.03160	.01980	-.76310	.60430
.601	4.139	-.01900	.04240	.01150	.04370	.01250	.03100	-.01990	.02750	-.44820	1.27900
.601	6.144	-.00770	.04250	.01010	.04310	.01190	.03160	-.00310	.03690	-.18190	4.83400
.601	8.171	.00350	.04290	.01020	.04200	.00890	.03260	.00960	.04580	.06220	-1.04600
.601	10.150	.01060	.04560	.01150	.04160	.00690	.03440	.02660	.05300	.41060	-.03500
.601	12.240	.03450	.04960	.01350	.04140	.00400	.03670	.04430	.06230	.69210	.15730
.600	14.260	.05000	.04900	.01530	.04090	.00000	.03960	.06200	.07140	.91070	.24630
.600	16.260	.06620	.04900	.01700	.03950	-.00260	.04050	.06220	.08020	1.14100	.31090
.600	18.270	.08530	.06720	.02490	.03720	-.01730	.04310	.10270	.08220	1.26900	.35110
.598	20.370	.10440	.07710	.03700	.03610	-.01410	.04790	.12460	.09690	1.55300	.38210
.598	22.270	.12660	.09120	.03950	.03570	-.02010	.05260	.15360	.10290	1.40900	.42040
.601	24.340	.15370	.10650	.05390	.03370	-.02400	.05470	.18390	.10970	1.44400	.44660
.601	26.160	.17900	.12160	.06750	.03210	-.02640	.05620	.21060	.11670	1.43600	.46320
.597	.07616	-.00115	-.00052	-.00000	-.00060	.00001	-.00067	.00695	.01342	.11470	.09032

RUN NO. 2/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CJ	CDP	CA	CAF	CAB	CH	CLM	L/D	KCP/L
1.496	1.949	-.04630	.10510	.05710	.10340	.05550	.04690	-.04960	-.01090	-.44040	.56850
1.501	.090	-.03530	.10230	.05460	.10230	.05470	.04650	-.03320	-.00140	-.34330	.64610
1.503	2.326	-.01990	.09960	.05260	.10050	.05350	.04590	-.01560	.00970	-.19950	.87640
1.501	4.297	-.00690	.07660	.05120	.09690	.05130	.04610	.00750	.02100	-.06960	-13.61000
1.501	6.324	.00350	.10070	.05160	.09650	.04690	.04700	.01950	.03160	.06490	.07940
1.501	8.361	.02400	.10290	.05360	.09660	.04650	.04660	.03470	.04190	.23260	.27230
1.499	10.420	.04330	.11190	.05670	.09660	.04630	.04930	.06160	.05420	.40690	.34640
1.499	12.420	.06600	.11900	.06190	.09510	.04590	.05010	.06850	.06730	.59000	.36630
1.499	14.460	.08960	.12070	.06740	.09450	.04110	.05000	.11690	.07930	.74240	.41740
1.499	16.470	.11260	.13210	.07840	.09300	.03710	.05670	.15110	.09160	.89770	.44260
1.499	18.630	.13280	.14690	.08900	.09040	.03390	.05600	.19170	.10470	1.04000	.46460
1.497	20.340	.16330	.16270	.11100	.08670	.03230	.05460	.23030	.12460	1.14600	.48200
1.497	22.320	.21630	.18140	.13010	.08470	.02910	.05330	.26930	.12690	1.19300	.48860
1.497	24.730	.24960	.20490	.15410	.08160	.02570	.05370	.31260	.14660	1.21900	.49230
1.499	26.660	.27960	.22830	.17700	.07660	.02110	.05370	.35230	.16300	1.22500	.49450
1.497	.00637	-.00105	-.00093	-.00075	-.00075	-.00066	-.00066	.00612	.00507	.05997	-1.99024

GRADIENT

DATE 20 SEP 75

TABULATED SOURCE DATA ARES 66-T06 (0A43)

ARES 66-T06 0A43 810 C5 D7 M5 P4

(INBT001) (24 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

BREF = 2660.0000 84. FT. 100P = 1078.4800 IN.
 LINE7 = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 BOOFLP = -14.200

RUN NO. 1/0 ROL = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAP	CAB	CN	CLM	L/D	XCP/L
1.999	-1.522	-.04290	.09260	.03700	.09180	.05560	.03490	-.04540	-.01070	-.48290	.31270
2.002	.583	-.03140	.08890	.03300	.08660	.03330	.03480	-.03050	-.00670	-.35470	.59490
1.999	2.729	-.01310	.08570	.03070	.08630	.03120	.03480	-.00900	.00240	-.15240	.75590
1.999	4.759	.00000	.08410	.04930	.08390	.04660	.03400	.00700	.01270	-.00030	.00920
1.999	6.924	.01740	.08590	.04960	.08320	.04660	.03540	.08760	.02260	.00260	.36310
1.999	8.797	.03460	.08310	.05790	.08190	.04410	.03690	.04790	.03200	.39460	.42140
1.999	10.860	.05660	.09310	.05460	.08070	.04150	.03840	.07340	.04330	.61030	.44900
1.999	12.070	.06030	.09940	.06070	.07900	.03940	.03900	.10040	.05450	.80850	.46360
1.999	13.000	.11790	.10870	.06990	.07630	.03610	.03960	.13530	.06350	1.02100	.48680
1.996	16.950	.14160	.11920	.08060	.07260	.03260	.03900	.17020	.07760	1.16700	.49690
1.996	18.930	.17590	.13450	.09730	.07130	.03100	.03900	.20970	.08820	1.30500	.50960
1.996	21.040	.20710	.15210	.11560	.06760	.02850	.03690	.24790	.10190	1.36200	.51310
2.002	23.060	.23710	.17200	.13370	.06340	.02600	.03920	.28560	.11650	1.37900	.51360
2.002	25.110	.26590	.19530	.15910	.06400	.02400	.03960	.32560	.13300	1.36100	.51310
1.999	27.160	.29670	.22270	.18560	.06260	.02110	.04120	.36370	.14680	1.33200	.51680
GRADIENT		.00701	-.00136	-.00121	-.00123	-.00109	-.00015	.00452	.00902	.07371	-.06151

TABULATED SOURCE DATA AYES 66-706 (0A43)

DATE 26 SEP 73

(RST002) (24 AUG 73)

AYES 66-706 0A43 B10 C5 D7 M3 P4 W07E16

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLCON = .000 BOOPLP = -14.200
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SRP = 2890.0000 94. FT. SRP = 1076.4500 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 DREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 5/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

AYES	ALPHA	CL	CD	CAF	CA	CDF	CAB	CH	CLM	L/D	KCP/L
1.502	-1.305	-0.0910	.1310	.0625	.1305	.0630	.0460	-.0430	-.0500	-.29710	.49470
1.502	.124	.0570	.1290	.0637	.1290	.0637	.0431	.0581	-.0334	.44590	.67760
1.501	2.132	.1370	.1351	.0630	.1280	.0630	.0440	.1630	-.0300	1.16900	.77040
1.499	4.119	.1480	.1450	.0637	.1280	.0637	.0430	.2590	-.0620	1.67500	.74640
1.500	6.115	.1660	.1640	.0610	.1250	.0610	.0430	.3570	-.0730	2.04200	.73390
1.500	8.637	.1900	.1880	.0620	.1250	.0620	.0430	.4490	-.0940	2.24200	.72660
1.500	10.600	.2260	.2240	.0630	.1240	.0630	.0440	.5360	-.0970	2.30600	.72240
1.500	12.610	.2660	.2640	.0730	.1230	.0730	.0437	.6110	-.1070	2.27900	.71660
1.500	14.950	.3120	.3100	.0760	.1230	.0760	.0460	.7420	-.1120	2.21000	.71400
1.499	17.100	.3630	.3610	.0770	.1210	.0770	.0470	.8490	-.1190	2.12500	.70790
1.498	19.100	.4210	.4190	.0670	.1190	.0670	.0480	.9420	-.1250	1.89100	.70390
1.497	21.340	.4920	.4900	.0640	.1170	.0640	.0510	1.0470	-.1280	1.62700	.70110
1.495	23.340	.5590	.5570	.0610	.1170	.0610	.0540	1.1360	-.1270	1.36200	.69630
1.495	25.400	.6340	.6320	.0580	.1170	.0580	.0560	1.2000	-.12500	1.07300	.69200
1.495	27.430	.7070	.7050	.0550	.1150	.0550	.0590	1.3140	-.11700	1.57300	.02057
1.497	GRADIENT	.04390	.00255	.00016	-.00036	.00307	-.00036	.04566	-.00645	.29974	.02057

RUN NO. 4/ 0 RVL = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

AYES	ALPHA	CL	CD	CAF	CA	CDF	CAB	CH	CLM	L/D	KCP/L
1.999	-1.302	-0.0910	.1310	.0610	.1190	.0610	.0340	-.0150	-.03710	-.11020	-.19780
2.002	.580	.0500	.1160	.0600	.1160	.0600	.0340	.0510	-.0440	.43610	.90520
2.002	.799	.0610	.1170	.0607	.1160	.0607	.0340	.0620	-.0450	.51890	.92070
2.002	2.927	.1310	.1210	.0790	.1140	.0790	.0340	.1370	-.0530	1.06400	.79950
2.005	5.070	.2030	.1310	.0760	.1130	.0760	.0340	.2140	-.0630	1.54200	.76060
2.005	7.128	.2720	.1460	.0760	.1110	.0760	.0330	.2690	-.0670	1.85800	.74320
2.003	9.107	.3360	.1620	.0760	.1120	.0760	.0330	.3390	-.0710	2.00200	.73120
2.003	11.210	.4050	.1920	.0730	.1090	.0730	.0340	.4350	-.0760	2.10600	.72260
2.003	13.260	.4730	.2240	.0730	.1090	.0730	.0360	.5180	-.0760	2.11500	.71490
2.003	15.320	.5390	.2560	.0690	.1051	.0690	.0350	.5970	-.0820	2.10000	.71000
2.004	17.470	.6130	.3000	.0670	.1020	.0670	.0350	.6750	-.0840	2.04100	.70480
2.001	19.650	.6760	.3440	.0630	.1020	.0630	.0350	.7540	-.0860	1.97000	.70110
2.001	21.480	.7430	.3960	.0610	.09810	.0610	.0360	.8390	-.0920	1.87100	.69610
2.001	23.640	.8170	.4620	.0570	.09610	.0570	.0360	.9340	-.0940	1.76700	.69540
2.001	25.770	.8840	.5320	.0540	.09470	.0540	.0370	1.0280	-.0940	1.66300	.69290
2.001	27.910	.9480	.6070	.0530	.09390	.0530	.0390	1.1230	-.0970	1.56700	.69090
2.001	GRADIENT	.03403	.00117	-.00042	-.00042	.00307	.00011	.03606	-.00390	.26165	.22165

DATE 29 SEP 73

TABULATED SOURCE DATA ARIES 66-706 (0443)

ARIES 66-706 0443 B10 C5 D7 P4 W07E18 V082

(081003) (24 AUG 73)

REFERENCE DATA

SAT = 2880.0000 56.71. 30RP = 1078.4800 IN.
 LREF = 474.8000 IN. 70RP = .0000 IN.
 BREF = 936.8000 IN. 20RP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
 ALLCON = .000 900RK = 54.900
 BOOFLP = -14.200 RUOOR = .000
 ELVN-L = .000 ELVN-R = .000

PARAMETRIC DATA

RUN NO. 7/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	XCP/L
1.903	-1.307	-0.0620	.13250	.11580	.15140	.11480	.03640	-.03100	.00600	-.17200	.78970
1.902	.270	.06120	.19050	.11520	.19080	.11490	.03580	.06200	-.00830	.40700	.70810
1.904	2.456	.15670	.15650	.12270	.14960	.11580	.03590	.16320	-.02340	1.00100	.71130
1.904	4.578	.24270	.16850	.13550	.14500	.11540	.03330	.25540	-.03580	1.44100	.70960
1.904	6.680	.33600	.18750	.15380	.14710	.11290	.03440	.35740	-.04820	1.80200	.70820
1.901	8.779	.42970	.21400	.17970	.14590	.11120	.03480	.45750	-.06040	2.00800	.70720
1.901	10.780	.51590	.24500	.20960	.14420	.10850	.03560	.55280	-.07210	2.10800	.70670
1.901	12.750	.59910	.28320	.24750	.14400	.10690	.03670	.64690	-.08250	2.11800	.70560
1.901	14.940	.68440	.33050	.29260	.14290	.10370	.03870	.74650	-.09110	2.071	.70380
1.901	17.090	.77250	.38410	.34510	.14010	.09930	.04010	.85130	-.10360	2.01100	.70140
1.901	19.170	.84700	.44210	.40290	.13690	.09670	.04070	.94550	-.10390	1.91600	.69930
1.901	21.240	.91940	.50590	.46690	.13470	.09350	.04470	1.03500	-.10310	1.81700	.69570
1.901	23.330	.98700	.57670	.53520	.13670	.08930	.04780	1.13500	-.10040	1.71100	.69250
1.901	25.920	1.05600	.65670	.61330	.13750	.08930	.04780	1.23600	-.09690	1.60900	.68900
1.901	27.690	1.12500	.74480	.69960	.13780	.08670	.05060	1.34000	-.09490	1.50800	.68640
1.901	GRADIENT	.04228	.00257	.00316	-.00044	.00015	-.00030	.04500	-.00856	.25456	-.00263

RUN NO. 8/0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	XCP/L
1.996	-1.312	-0.0640	.12530	.09660	.12510	.09640	.02630	-.01930	-.01340	-.13080	.40430
2.002	.617	.05940	.12870	.10180	.12790	.10060	.02660	.03780	-.02290	.43080	.60320
1.999	2.928	.12610	.13440	.10690	.12780	.10030	.02780	.13260	-.03060	.93680	.74290
2.002	4.964	.19260	.14320	.11560	.12570	.09800	.02730	.20740	-.03930	1.38700	.72760
1.999	6.956	.25950	.15630	.12930	.12370	.09650	.02700	.27660	-.04490	1.68000	.71810
1.999	9.085	.33040	.17580	.14940	.12150	.09360	.02790	.35400	-.05190	1.88000	.71240
1.996	11.040	.39470	.20000	.17200	.12090	.09220	.02840	.42570	-.05600	1.97300	.70770
1.999	13.490	.47410	.23720	.20980	.12040	.09200	.02830	.51630	-.06150	1.99300	.70260
1.999	15.760	.53450	.26620	.24080	.11710	.08970	.02850	.58650	-.06450	1.99300	.69930
2.001	17.490	.60790	.31240	.26470	.11530	.08630	.02860	.67360	-.06720	1.94800	.69570
1.996	19.740	.67180	.35720	.29550	.11320	.08360	.02920	.75240	-.06890	1.88100	.69270
2.001	21.540	.74020	.41280	.32950	.11230	.08180	.03050	.84000	-.07150	1.79300	.69040
1.996	23.970	.80350	.47270	.36430	.11200	.08030	.03140	.92340	-.07360	1.70000	.68640
2.000	25.970	.87400	.54090	.44360	.10660	.07670	.03190	1.02200	-.07630	1.61600	.68740
2.003	28.060	.94410	.61770	.51190	.10540	.07180	.03320	1.12500	-.08330	1.52800	.68650
2.005	GRADIENT	.03376	.00260	.00265	.00009	-.00006	.00016	.03609	-.00406	.23699	.14326



DATE 28 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

AMES 66-706 0443 B10 C5 D7 M3 P4 W8T818 VSR3

(R8T004) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ATTORN = .000 SPOARK = 54.900
BOPLP = -14.200 RUDDER = .000
ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SRDF = 2090.0000 34. FT. 10RP = 1076.4000 IN.
LREF = 474.0000 IN. 14RP = .0000 IN.
BRDF = 936.6000 IN. 24RP = 400.0000 IN.
SCALE = .0150 SCALE

RUN NO. 12/ 0 RV/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.802	-1.999	-.10870	.09140	.04360	.08730	.04000	.04690	-.11160	.04900	-1.19000	.91660
.802	.065	-.01530	.06870	.04300	.06860	.04310	.04480	-.01820	.04920	-.17260	1.01000
.804	2.115	.07140	.06660	.04530	.06810	.04290	.04340	.07460	.05060	.80330	.51820
.804	4.113	.16990	.09340	.04840	.06120	.03620	.04430	.17220	.04910	1.77700	.55810
.802	6.207	.27190	.10310	.05760	.07310	.02730	.04460	.29100	.04460	2.63400	.80330
.802	8.200	.37500	.11660	.07430	.06650	.01860	.04320	.36810	.04310	3.16200	.62020
.800	10.370	.47970	.15240	.11100	.06650	.02130	.04410	.49960	.03940	3.06700	.63180
.800	12.360	.56690	.19750	.15310	.07070	.02590	.04460	.59600	.03590	2.86400	.63850
.801	14.480	.66160	.24690	.20410	.07920	.02920	.04590	.70500	.03260	2.66400	.64330
.801	16.530	.76990	.30990	.26320	.07770	.03090	.05040	.82290	.02090	2.47100	.65090
.801	18.590	.87030	.37460	.32990	.07740	.02630	.05060	.94430	.01220	2.32300	.65940
.800	20.710	.96640	.44490	.39430	.07240	.01530	.05390	1.06100	.01760	2.01800	.65110
.800	22.690	1.01100	.50110	.44890	.06660	-.00010	.06950	1.12900	.02610	1.87100	.63590
.801	24.740	.99770	.53320	.47240	.06660	-.00010	.07500	1.04800	.07720	1.68200	.61900
.802	26.740	.90310	.53700	.46690	.07320	-.00350	.07500	1.04800	.13270	1.48450	-.10640
GRADIENT		.04666	.00029	.00077	-.00105	-.00056	-.00039	.04619	.00010		

RUN NO. 11/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.806	-1.744	-.09110	.11420	.06640	.11140	.06360	.04600	-.09450	.04720	-.79770	.63640
.801	.365	.01690	.11260	.06440	.11240	.06430	.04740	.01720	.04310	.14620	-.23610
.804	2.429	.10830	.11660	.07370	.11390	.06690	.04590	.11320	.04620	.91260	.51390
.802	4.471	.20760	.12710	.04220	.11090	.06350	.04490	.21710	.04430	1.63500	.56700
.803	6.547	.30600	.14760	.10100	.11150	.06460	.04600	.32260	.03790	2.06600	.61800
.803	8.676	.40210	.17430	.12970	.11220	.06630	.04530	.42360	.03100	2.30600	.63360
.899	10.720	.49730	.21060	.16410	.11460	.06710	.04690	.52790	.02220	2.36000	.64500
.901	12.750	.56690	.25370	.20310	.11750	.06600	.05100	.62830	.02260	2.31700	.65490
.902	14.870	.60990	.31110	.26010	.12340	.07060	.05270	.74760	.02160	2.22100	.65960
.899	16.910	.76690	.37390	.31760	.12900	.07030	.05690	.86120	.02160	2.10300	.66080
.899	19.060	.83500	.43290	.37260	.13130	.06750	.06270	.94750	.01720	1.97000	.63730
.903	21.140	.92690	.50310	.43600	.13500	.06520	.06950	1.04600	.01910	1.84200	.65330
.899	23.140	.92960	.54470	.47130	.13540	.05560	.07850	1.06900	.05240	1.70700	.64250
.899	25.160	.93960	.59660	.51310	.14090	.05040	.06950	1.10400	.08990	1.57500	.63090
.899	27.260	1.02200	.67300	.56610	.13920	-.04150	.09610	1.19900	.09430	1.46600	.63190
GRADIENT		.04774	.00215	.00273	-.00205	-.00050	-.00050	.04976	-.00127		

DATE 28 SEP 73

TABULATED SOURCE DATA ARES 66-716 (0A43)

PAGE 6

(0817004) (24 AUG 73)

ARES 66-706 0A43 810 C5 D7 M3 P4 W8TE18 VSR3

REFERENCE DATA

2007 = 2000.0000 20.0 FT. 2007P = 1076.4000 IN.
 1007 = 474.8000 IN. 1007P = .0000 IN.
 8007 = 936.6000 IN. 8007P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATTORN = .000 8000R = 34.900
 8007P = -14.800 RUDDER = .000
 CLVH-L = .000 CLVH-R = .000

RUN NO. 10/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
1.200	-1.871	-0.0090	.16710	.11110	.16810	.10810	.08880	-.07170	.04830	-.40030	.90080
1.201	.420	.04480	.11000	.11000	.16830	.10970	.08880	.04840	.08790	.26910	.44180
1.203	2.304	.13780	.11780	.11780	.16840	.11030	.08880	.16800	.00350	.90830	.64800
1.202	4.645	.26780	.18930	.13290	.16820	.11040	.08880	.26870	-.01210	1.48000	.87330
1.203	6.720	.36600	.21040	.15130	.16830	.10980	.08880	.39010	-.02310	1.74800	.68300
1.201	6.799	.46650	.23920	.16140	.16830	.10860	.08790	.49780	-.03400	1.95100	.68440
1.200	10.690	.57500	.27930	.21940	.16870	.10460	.08790	.61740	-.04620	2.01800	.68790
1.200	12.960	.67590	.32630	.26430	.16670	.10290	.08680	.73190	-.05690	2.07000	.68780
1.200	15.070	.79060	.38560	.32240	.16690	.10120	.08680	.86380	-.07810	2.03000	.68230
1.199	17.180	.86100	.44380	.36290	.16640	.09960	.08640	.97420	-.08750	1.94000	.68210
1.200	19.360	.96410	.51710	.44930	.16600	.09670	.07040	1.06100	-.09390	1.86400	.68580
1.196	21.370	1.02100	.57120	.50500	.15990	.08680	.07010	1.15900	-.08300	1.78800	.67230
1.196	23.410	1.02800	.61080	.54820	.15190	.08350	.06740	1.16800	-.04100	1.68400	.66100
1.200	25.470	1.03300	.65620	.59330	.14810	.07850	.06630	1.21500	-.00340	1.57500	.65710
1.201	27.540	1.06000	.72490	.66500	.14340	.07550	.06700	1.29300	.01030	1.49000	.65710
GRADIENT		.03305	.00339	.00346	.00016	.00022	-.00004	.05808	-.00966	.26960	-.02195

RUN NO. 9/ 0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
1.200	-1.859	-0.0320	.16620	.11070	.16410	.11680	.04720	-.06880	.08820	-.36040	.90710
1.201	.214	.03040	.11560	.11560	.16320	.11350	.04720	.03100	.01170	.18620	.52340
1.203	2.292	.11980	.11660	.11660	.16180	.11470	.04670	.12580	-.00360	.71380	.87010
1.203	4.466	.21240	.17610	.13010	.15910	.11290	.04590	.22350	-.01770	1.20800	.66600
1.203	6.537	.30110	.19250	.14640	.15700	.11060	.04620	.32100	-.02960	1.56400	.69290
1.201	6.576	.36820	.21610	.17070	.15590	.10960	.04380	.41800	-.04240	1.79800	.69640
1.200	10.690	.46470	.24990	.20340	.15670	.10630	.04700	.52270	-.05640	1.94000	.69690
1.200	12.740	.57500	.29030	.24250	.15480	.10770	.04680	.62290	-.06420	1.97400	.69910
1.200	14.930	.65750	.33530	.28720	.15460	.10480	.04910	.72180	-.07330	1.96100	.69730
1.200	16.980	.73670	.36360	.33620	.15160	.10180	.04910	.81680	-.06350	1.92900	.69650
1.200	19.010	.81330	.43920	.39030	.15040	.09870	.05100	.91190	-.06970	1.85200	.69320
1.200	21.160	.88980	.50640	.45530	.15100	.09630	.05360	1.01300	-.09360	1.75700	.69310
1.200	23.220	.95680	.57360	.52230	.14940	.09340	.05700	1.10700	-.09260	1.67100	.69090
1.200	25.290	1.02100	.64360	.59170	.14610	.08640	.05700	1.19600	-.09740	1.56600	.68700
1.200	27.460	1.08300	.72060	.66700	.14030	.07970	.05970	1.29300	-.08870	1.50200	.68400
GRADIENT		.04349	.00169	.00163	-.00076	-.00057	-.00021	.04641	-.00726	.25106	-.00987



DATE 20 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

(081004) (24 AUG 73)

AMES 66-706 0443 810 C5 D7 M3 P4 W8TE18 V8R5

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILLON = .000 SPORK = 54.900
ROOPLP = -14.200 RUDDER = .000
ELWHL = .000 ELWHLR = .000

REFERENCE DATA

9007 = 2000.0000 IN. 100P = 1076.4000 IN.
1007 = 474.0000 IN. 100P = .0000 IN.
9007 = 936.0000 IN. 200P = 400.0000 IN.
SCALE = .0190 SCALE

RUN NO. 8/0 RV/L = 2.44 GRADIENT INTERVAL = -8.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CM	CLM	L/D	KCP/L
2.001	-1.394	-.03790	.14210	.10760	.14110	.10860	.03410	-.04140	.00180	-.20700	.07070
2.002	.676	.03260	.14170	.10720	.14130	.10820	.03430	.03490	-.00770	.23150	.73960
1.999	2.829	.10740	.14550	.11090	.13990	.10540	.03430	.11440	-.01890	.73900	.71760
1.999	4.824	.17560	.15460	.12020	.13690	.10440	.03430	.10840	-.02740	1.13700	.71800
1.999	6.891	.24340	.16710	.13250	.13670	.10160	.03460	.28170	-.03540	1.45700	.70630
1.999	9.064	.31270	.18760	.15260	.13600	.10060	.03520	.33630	-.04140	1.66700	.70360
2.000	11.070	.36100	.20900	.17360	.13190	.09590	.03590	.41400	-.04650	1.82500	.70120
1.996	13.150	.44690	.24070	.20520	.13270	.09620	.03630	.49000	-.05150	1.85700	.69780
2.001	15.170	.51300	.27140	.23660	.12760	.09160	.03560	.56620	-.05480	1.89000	.69460
2.001	17.350	.56900	.31360	.26020	.12530	.09010	.03500	.65190	-.05920	1.86500	.69250
2.001	19.560	.63220	.36040	.32660	.12360	.08790	.03570	.73480	-.06240	1.81000	.69030
2.001	21.420	.72270	.41590	.37960	.12150	.08460	.03670	.82390	-.06620	1.74600	.68670
2.000	23.530	.79100	.47540	.44010	.11830	.08200	.03630	.91420	-.07070	1.67100	.68780
2.002	25.990	.89930	.53750	.50430	.11370	.07690	.03670	1.00700	-.07440	1.59900	.68640
1.999	27.760	.92770	.61180	.57830	.10920	.07130	.03770	1.10600	-.07960	1.51800	.68560
GRADIENT		.03391	.00195	.00194	-.00006	-.00003	.03645		-.00456	.22360	.00477

DATE 20 SEP 73

CLASSIFIED SOURCE DATA AMES 66-706 (OA43)

AMES 66-706 Q443 B10 C5 C7 M3 F4 W8TE10 VSR9

(RB7009) (24 AUG 79)

REFERENCE DATA

1967	=	200,000	24.77.	1968	=	1076,400	IN.
1967	=	474,600	IN.	1969	=	,000	IN.
1967	=	926,600	IN.	1969	=	400,000	IN.
SCALE	=		.0150	SCALE	=		

BETA =	.000	ELEVON =	10.000
AILRON =	.000	SPDRK =	54.300
BOOPLP =	-14.200	RUDER =	.000
ELEV-L =	10.000	ELEV-R =	10.000

PARAMETRIC DATA

[illegible]

ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.540	-2.052	.07560	.11350	.05710	.11610	.05960	.09950	-.05430	.64610	.93960
.546										
.601	.16160	.11610	.06250	.11630	.06250	.03240	.16150	-.05130	1.39600	.79400
.601	.20770	.12410	.07250	.11350	.04150	.03110	.27500	-.03770	2.16300	.73530
.601	.2251	.20630	.07250	.10700	.05460	.03100	.30610	-.05660	2.67600	.71690
.599	4.309	.35900	.06230	.09950	.04630	.04840	.47710	-.03600	3.11000	.70330
.600	.46340	.14910	.09950	.09950	.04630	.04840	.56480	-.03600	3.27600	.69660
.602	.6428	.17260	.12360	.08790	.03850	.04680	.70490	-.06560	3.11900	.69340
.600	.87660	.21690	.16740	.08860	.03940	.04760	.77530	-.06130	2.77600	.68620
.599	10.510	.26330	.21530	.09900	.05000	.05090	.87520	-.06630	2.53700	.68710
.599	12.960	.32330	.26660	.10630	.05320	.05320	.107500	-.06260	2.34600	.66650
.599	14.590	.39600	.33920	.11250	.05150	.05930	1.12270	-.06260	2.04100	.66630
.599	16.660	.59000	.40960	.11160	.04700	.08040	1.25270	-.06650	1.91800	.66040
.600	1.02700	.53000	.47500	.10600	.03710	.08490	1.23370	-.05910	1.74000	.67130
.601	20.910	.57210	.51140	.10350	.03710	.08490	1.23370	-.05910	1.74000	.66650
.600	22.760	.56700	.49390	.09960	.01660	.06010	1.13500	.04270	1.74000	.66650
.596	24.850	.56770	.49390	.09960	.01660	.06010	1.13500	.04270	1.74000	.66650
.596	26.630	.56770	.49390	.09960	.01660	.06010	1.13500	.04270	1.74000	.66650
.603	.94700	.50330	.05399	-.00141	.01700	.04670	.04707	-.00066	.31955	-.03324
GRADIENT	.40500	.00330	.00399	-.00141	-.00073	-.00060	.04707	-.00066	.31955	-.03324

	DATE	TIME	TEMP.	HUMIDITY	WIND DIRECTION	WIND VELOCITY	GRAVITY	INTERVAL	BAROMETER	THERMOMETER	HYGROMETER	ANEMOMETER	PNEUMOMETER	PIEZOMETER	STRAIN GAUGE	ACCELEROMETER	MAGNETIC FIELD	ELECTRIC FIELD	SOUND LEVEL	VIBRATION	RADIATION	OTHER DATA
1	1960-07-15	08:00	25.0	65	N	10	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
2	1960-07-15	09:00	26.0	60	N	12	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
3	1960-07-15	10:00	27.0	55	N	15	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
4	1960-07-15	11:00	28.0	50	N	18	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
5	1960-07-15	12:00	29.0	45	N	20	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
6	1960-07-15	13:00	30.0	40	N	22	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
7	1960-07-15	14:00	31.0	35	N	25	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
8	1960-07-15	15:00	32.0	30	N	28	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
9	1960-07-15	16:00	33.0	25	N	30	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
10	1960-07-15	17:00	34.0	20	N	32	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
11	1960-07-15	18:00	35.0	15	N	35	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
12	1960-07-15	19:00	36.0	10	N	38	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
13	1960-07-15	20:00	37.0	5	N	40	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
14	1960-07-15	21:00	38.0	0	N	42	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
15	1960-07-15	22:00	39.0	-5	N	45	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
16	1960-07-15	23:00	40.0	-10	N	48	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
17	1960-07-16	00:00	41.0	-15	N	50	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
18	1960-07-16	01:00	42.0	-20	N	52	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
19	1960-07-16	02:00	43.0	-25	N	55	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
20	1960-07-16	03:00	44.0	-30	N	58	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	10	10	10	10	10	10	
21	1960-07-16	04:00	45.0	-35	N	60	9.80665	1.00000	1013.25	20.0	50	10	10	10	10	1						

WAGON	ALPHA	CL	CD	CF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.899	-1.737	.03630	.13020	.07380	.13130	.07470	.09510	.03430	-.04330	.29410	1.11300
.902	.380	.16390	.13960	.06300	.13670	.06290	.03480	.16470	-.05980	1.17200	.78980
.902	2.573	.29660	.15290	.09910	.13960	.06800	.03290	.29340	-.07330	1.67800	.74930
.903	4.665	.40310	.17320	.11940	.14170	.08570	.03500	.41800	-.06630	2.31200	.75390
.902	6.743	.90200	.15070	.14360	.14360	.09000	.03000	.52240	-.06990	2.46100	.72150
.902	8.819	.23640	.16420	.14210	.14210	.09300	.03450	.61930	-.09310	2.47500	.71370
.903	10.940	.68230	.22950	.15120	.15120	.09380	.03630	.72410	-.10060	2.36700	.70970
.899	12.970	.78530	.33490	.27560	.15450	.09360	.03680	.62120	-.10260	2.26800	.70460
.900	15.070	.86330	.40070	.33670	.16240	.09540	.06610	.62120	-.11200	2.15500	.70270
.901	17.110	.46350	.37200	.35670	.16610	.09670	.06930	1.03500	-.10850	2.02800	.69750
.902	19.190	.94640	.45950	.43050	.17160	.09270	.07760	1.10400	-.09160	1.87950	.68960
.902	21.230	1.01700	.57830	.49930	.17080	.09610	.08330	1.15700	-.08020	1.75800	.67860
.902	23.280	1.04300	.64140	.55420	.17670	.08180	.09340	1.21300	-.03390	1.62930	.66990
.902	25.340	1.03900	.66810	.59110	.17750	.07020	.10760	1.23300	.01410	1.50900	.65590
.902	27.400	1.08300	.76060	.66490	.17810	.06610	.10690	1.31300	.02260	1.42600	.63360
.902	29.400	.09695	.92711	.90150	.00150	.00170	-.00011	.05937	-.00660	.31469	-.03479

DATE 26 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

ANES 66-706 0443 B10 C3 D7 H3 F4 WTE18 VSR5

(RBT003) (14 AUG 73)

PAGE 9

REFERENCE DATA

SEEF = 2690.0000 30 FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AIRLON = .000 SPCBRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

RUN NO. 15/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CF	CA	CAF	CAB	CN	CLM	L/D	XCF/L
1.199	-1.591	.03120	.18780	.12790	.18840	.12870	.05920	.02800	-.02910	-.16640	1.06000
1.202	.404	.14260	.19050	.13170	.18950	.13070	.05850	.14410	-.05150	.74950	.76770
1.203	2.658	.20220	.20220	.14390	.18990	.13140	.05820	.27110	-.07440	1.29500	.75810
1.200	4.772	.26020	.22230	.16370	.18990	.13110	.05850	.39730	-.09730	1.71000	.74760
1.203	6.872	.30000	.25000	.19120	.18990	.13080	.05900	.51330	-.11350	1.94800	.73910
1.203	8.964	.39110	.28650	.22590	.19460	.12920	.06110	.62850	-.12830	2.06400	.73300
1.203	11.040	.48810	.33410	.27030	.19420	.12920	.06470	.74920	-.14360	2.09000	.72850
1.201	13.190	.60460	.39070	.32460	.19680	.12770	.07030	.87260	-.15470	2.06000	.72340
1.200	15.300	.80580	.45350	.38520	.19850	.12720	.07330	.99240	-.16620	1.99700	.71980
1.201	17.400	.98910	.52060	.45120	.20100	.12820	.07660	1.10700	-.17170	1.50000	.71580
1.200	19.450	1.06300	.58440	.51820	.19710	.12690	.08690	1.19700	-.17170	1.81900	.71130
1.199	21.490	1.07400	.62320	.55800	.18630	.11620	.08960	1.22800	-.12940	1.72400	.69770
1.199	23.530	1.07800	.66210	.60200	.17670	.10920	.06680	1.25300	-.08800	1.62800	.68510
1.201	25.620	1.09300	.72240	.65810	.17750	.10630	.07050	1.30700	-.05610	1.51700	.67540
1.200	27.720	1.13600	.79230	.73260	.17220	.10480	.06690	1.37600	-.03670	1.43600	.66930
GRADIENT		.05460	.00545	.05562	.00023	.00037	-.00011	.05813	-.01066	.24227	-.04474

RUN NO. 14/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CF	CA	CAF	CAB	CN	CLM	L/D	XCF/L
1.199	-1.926	-.00660	.17930	.12680	.17900	.12650	.05130	-.01280	-.02000	-.03780	.10060
1.196	.280	.09210	.17940	.12770	.17890	.12730	.05120	.09300	-.03800	.51340	.80610
1.201	2.477	.16900	.18790	.13750	.17910	.12910	.04990	.19300	-.05470	.98800	.76140
1.201	4.536	.27630	.20120	.15140	.17870	.12880	.04990	.29140	-.07050	1.37500	.74650
1.203	5.871	.33730	.21300	.16420	.17820	.12830	.04990	.35740	-.07790	1.57800	.74000
1.202	6.626	.37090	.22100	.17130	.17670	.12670	.05000	.39390	-.08440	1.67800	.73660
1.203	8.750	.46330	.27020	.20020	.17660	.12590	.05060	.49800	-.10100	1.85900	.73250
1.203	10.810	.55270	.28750	.23690	.17870	.12720	.05150	.59680	-.11510	1.92300	.72890
1.203	12.760	.63630	.32910	.27730	.17900	.12730	.05290	.69330	-.12780	1.93300	.72590
1.203	14.960	.72240	.37830	.32690	.17900	.12580	.05300	.79360	-.13840	1.91000	.72220
1.202	17.100	.80640	.43170	.38240	.17500	.12340	.05130	.89960	-.14810	1.87200	.71890
1.202	19.160	.90320	.49140	.44200	.17430	.12210	.05180	.99550	-.15380	1.79700	.71520
1.201	21.290	.96260	.56270	.51180	.17480	.12020	.05610	1.10100	-.16140	1.71100	.71240
1.201	23.290	1.03200	.63490	.58270	.17520	.11840	.05610	1.19900	-.16370	1.62500	.70880
1.499	25.470	1.10000	.71610	.66340	.17310	.11480	.05770	1.30100	-.16220	1.53700	.70450
1.498	27.560	1.15600	.79540	.74090	.16950	.10800	.06080	1.39300	-.15670	1.45400	.70020
GRADIENT		.04364	.00339	.00364	-.00003	.00041	-.00034	.04690	-.00779	.21823	.08856

PARAMETRIC DATA

BETA =	.000	ELEVON =	10.000
AIRLON =	.000	SAPBRK =	34.900
BOOPLP =	-14.200	RUDDER =	.000
ELVN-L =	10.000	ELVN-R =	10.000

REFERENCE DATA

YURY	=	2890.0000	SG.FT.	YORP	=	1076.4800	IN.
URY	=	474.8000	IN.	YARP	=	.0000	IN.
URY	=	936.6800	IN.	ZARP	=	400.0000	IN.
SCALE	=	.0150		SCALE			

GRADIENT INTERVAL = -5.00/ 5.0

ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.994	-0.00820	1.9060	1.1530	1.5040	1.1510	0.9500	7.7000	-0.02640	-0.04130	-0.26420
1.996	0.0920	1.5190	1.1170	1.5100	1.1630	1.5340	0.7120	-0.03860	0.9540	0.85390
2.001	1.4160	1.5800	1.2220	1.5070	1.1480	0.9560	1.4950	-0.04820	0.8960	0.77540
2.009	2.2420	1.6940	1.3260	1.5010	1.1320	0.9570	2.2810	-0.05780	1.2640	0.75050
1.997	4.994	1.8490	1.4770	1.4970	1.1230	0.9570	2.9930	-0.06650	1.50900	0.73940
1.996	6.964	2.0500	1.6560	1.4730	1.0910	0.9580	3.7210	-0.07460	1.69800	0.73170
2.004	8.941	2.3470	1.9460	1.4740	1.0900	0.9630	4.5310	-0.08190	1.79100	0.72460
1.998	11.160	2.5350	2.3130	1.4680	1.1040	0.9640	5.3940	-0.0880	1.82700	0.71890
1.996	13.270	2.6870	2.6870	1.4590	1.0850	0.9740	6.1960	-0.09510	1.85400	0.71490
1.996	15.360	2.7630	2.7630	1.4500	1.0670	0.9640	7.0480	-0.10030	1.81100	0.71090
1.996	17.430	3.4760	3.1300	1.4020	1.0470	0.9550	7.8530	-0.10460	1.76200	0.70770
2.002	19.450	3.9370	3.6030	1.3960	1.0330	0.9620	8.6180	-0.10990	1.68800	0.70490
2.005	21.650	4.5510	4.2140	1.3930	1.0270	0.9550	9.6620	-0.11720	1.61700	0.70130
2.005	23.550	5.1310	4.7590	1.3930	1.0270	0.9550	1.06900	-0.12510	1.55400	0.70180
2.005	25.750	5.6840	5.5640	1.3780	1.0010	0.9370	1.16600	-0.13520	1.46400	0.70150
2.002	27.770	6.6190	6.6230	1.3410	0.95000	0.9370	1.16600	-0.1485	1.3520	0.70251
2.002	29.770	7.9590	7.9590	1.3410	0.95000	0.9370	1.16600	-0.1485	1.20350	0.70251
2.002	31.770	9.0290	9.0290	1.3410	0.95000	0.9370	1.16600	-0.1485	1.05350	0.70251
2.002	33.770	10.2910	10.2910	1.3410	0.95000	0.9370	1.16600	-0.1485	0.90350	0.70251
2.002	35.770	11.7610	11.7610	1.3410	0.95000	0.9370	1.16600	-0.1485	0.75350	0.70251
2.002	37.770	13.4310	13.4310	1.3410	0.95000	0.9370	1.16600	-0.1485	0.60350	0.70251
2.002	39.770	15.3010	15.3010	1.3410	0.95000	0.9370	1.16600	-0.1485	0.45350	0.70251
2.002	41.770	17.3710	17.3710	1.3410	0.95000	0.9370	1.16600	-0.1485	0.30350	0.70251
2.002	43.770	19.6410	19.6410	1.3410	0.95000	0.9370	1.16600	-0.1485	0.15350	0.70251
2.002	45.770	22.1110	22.1110	1.3410	0.95000	0.9370	1.16600	-0.1485	0.00350	0.70251
2.002	47.770	24.7810	24.7810	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.14650	0.70251
2.002	49.770	27.6510	27.6510	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.29650	0.70251
2.002	51.770	30.8210	30.8210	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.44650	0.70251
2.002	53.770	34.1910	34.1910	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.59650	0.70251
2.002	55.770	37.7610	37.7610	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.74650	0.70251
2.002	57.770	41.5310	41.5310	1.3410	0.95000	0.9370	1.16600	-0.1485	-0.89650	0.70251

DATE 26 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0A43)

(0810006) (24 AUG 73)

ANES 66-706 0A43 B10 C5 D7 M3 F4 W07E18 V3M5

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AIRLON = .000 SPOORR = 94.900
 BODYLP = -14.800 RUDDER = .000
 ELVN-L = -40.000 ELVN-R = -40.000

REFERENCE DATA

SWEP = 2990.0000 94.000 IN.
 LREF = 474.0000 IN.
 SWEP = 956.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 21/ 0 RV/L = 2.7 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.199	-2.079	-43910	-26910	.21610	.26900	.80010	.06580	-.44310	.24910	-1.88700	.80110
1.204	.230	-26230	.29620	.19060	.25730	.19170	.06310	-.29130	.20700	-1.10800	.92310
1.209	2.420	-14670	.24370	.17900	.24960	.18500	.06220	-.13630	.17850	-.00100	1.12300
1.203	4.545	-05690	.24600	.18150	.24730	.18270	.06250	-.10720	.15690	-.10890	6.43200
1.203	6.731	.11230	.25920	.19350	.24400	.17600	.06420	.14190	.12750	.43350	.33680
1.203	8.695	.21750	.27560	.20990	.23960	.17310	.06370	.25680	.11210	.78900	.90390
1.204	10.710	.31590	.30070	.23460	.23660	.16950	.06310	.36630	.10330	1.05100	.59520
1.202	12.900	.43680	.33360	.26650	.22720	.16040	.06550	.50220	.09110	1.31500	.59310
1.202	15.040	.55240	.37440	.31010	.21820	.15160	.06540	.63160	.07370	1.47800	.61710
1.202	17.170	.65420	.42220	.35890	.21030	.14400	.06550	.74970	.06250	1.54900	.63020
1.204	19.280	.74430	.47570	.41150	.20340	.13530	.06660	.85980	.05650	1.56400	.63370
1.200	21.340	.81490	.52960	.46510	.19680	.12760	.06790	.95170	.06060	1.53900	.63700
1.200	23.430	.86430	.59090	.52320	.19060	.11690	.07230	1.04600	.06740	1.49700	.62640
1.200	25.410	.88780	.61800	.55450	.17740	.10700	.06900	1.06700	.10020	1.43600	.62410
1.199	27.410	.92440	.64480	.60360	.16080	.09190	.06860	1.12300	.11350	1.39000	.62540
1.201	27.610	.92440	.64480	.60360	.16080	.09190	.06860	1.12300	.11350	1.39000	.62540
GRADIENT		.06171	-.00593	-.00326	-.00332	-.00266	-.00047	.06616	-.01396	.21528	

RUN NO. 20/ 0 RV/L = 2.54 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.199	-2.079	-43910	-26910	.21610	.26900	.80010	.06580	-.44310	.24910	-1.88700	.80110
1.204	.230	-26230	.29620	.19060	.25730	.19170	.06310	-.29130	.20700	-1.10800	.92310
1.209	2.420	-14670	.24370	.17900	.24960	.18500	.06220	-.13630	.17850	-.00100	1.12300
1.203	4.545	-05690	.24600	.18150	.24730	.18270	.06250	-.10720	.15690	-.10890	6.43200
1.203	6.731	.11230	.25920	.19350	.24400	.17600	.06420	.14190	.12750	.43350	.33680
1.203	8.695	.21750	.27560	.20990	.23960	.17310	.06370	.25680	.11210	.78900	.90390
1.204	10.710	.31590	.30070	.23460	.23660	.16950	.06310	.36630	.10330	1.05100	.59520
1.202	12.900	.43680	.33360	.26650	.22720	.16040	.06550	.50220	.09110	1.31500	.59310
1.202	15.040	.55240	.37440	.31010	.21820	.15160	.06540	.63160	.07370	1.47800	.61710
1.202	17.170	.65420	.42220	.35890	.21030	.14400	.06550	.74970	.06250	1.54900	.63020
1.204	19.280	.74430	.47570	.41150	.20340	.13530	.06660	.85980	.05650	1.56400	.63370
1.200	21.340	.81490	.52960	.46510	.19680	.12760	.06790	.95170	.06060	1.53900	.63700
1.200	23.430	.86430	.59090	.52320	.19060	.11690	.07230	1.04600	.06740	1.49700	.62640
1.200	25.410	.88780	.61800	.55450	.17740	.10700	.06900	1.06700	.10020	1.43600	.62410
1.199	27.410	.92440	.64480	.60360	.16080	.09190	.06860	1.12300	.11350	1.39000	.62540
1.201	27.610	.92440	.64480	.60360	.16080	.09190	.06860	1.12300	.11350	1.39000	.62540
GRADIENT		.06171	-.00593	-.00326	-.00332	-.00266	-.00047	.06616	-.01396	.21528	

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

AMES 66-706 0443 B10 C3 D7 M3 P4 W07C16 V083

(RST0008) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
ALLRON = .000 SPOOK = 94.900
BOOPLP = -14.200 RUDDER = .000
ELVHL = -40.000 ELVHL-R = -40.000

REFERENCE DATA

REF = 2000.000 50.00 FT. XMRP = 1076.4000 IN.
LREF = 474.0000 IN. YMRP = .0000 IN.
BREF = 936.0000 IN. ZMRP = 400.0000 IN.
SCALE = .0190 SCALE

RUN NO. 19/ 0 RV/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.496	-2.012	-2.7240	.23360	.18220	.22390	.17250	.04970	-.28040	.14390	-1.18000	.64350
1.501	.097	-1.7880	.22350	.16980	.22380	.17010	.05170	-.17920	.12870	-.79910	.91630
1.504	2.237	-0.07830	.21720	.16350	.22010	.16640	.05190	-.06970	.10690	-.38030	1.21600
1.501	4.366	.02800	.21630	.16370	.21370	.16090	.05120	.04240	.08480	.18130	-.04830
1.501	6.479	.12430	.21900	.16740	.20350	.15170	.05050	.1430	.06990	.58780	.49140
1.501	8.676	.22040	.23420	.18280	.19890	.14660	.05000	.25100	.05810	.94130	.77780
1.501	10.650	.30660	.25450	.20320	.19340	.14340	.04890	.34830	.04990	1.20350	.60170
1.501	12.920	.41190	.28590	.23810	.18670	.13750	.04930	.56070	.02440	1.44100	.63340
1.501	14.800	.49600	.31790	.26960	.17590	.12580	.04960	.66190	.01890	1.56000	.64190
1.501	16.990	.58350	.36250	.31440	.17520	.12140	.05310	.71810	.01490	1.61100	.64960
1.501	19.020	.65970	.41270	.36190	.17500	.11680	.05770	.85790	.01240	1.56100	.65460
1.501	21.110	.73720	.47230	.41800	.17500	.11100	.06160	.95960	.01210	1.51000	.65550
1.499	23.500	.81500	.53840	.48140	.17500	.10310	.06450	1.05100	.01410	1.46000	.65320
1.499	25.500	.87830	.60140	.54240	.16840	.10310	.06450	1.12600	.02630	1.40100	.65160
1.499	27.320	.92760	.66200	.60440	.16240	.09760	.06410	1.12600	.02630	1.40100	.65160
1.499	.04680	-.00273	-.00250	-.00250	-.00161	-.00181	.00022	.05062	-.00870	.20204	-.11747

RUN NO. 18/ 0 RV/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.996	-1.611	-1.7780	.18810	.15410	.18300	.14970	.03320	-.18290	.08000	-.94450	.61640
1.996	.678	-.09470	.17440	.14090	.17550	.14160	.03330	-.09270	.06560	-.94310	.91300
2.006	2.770	-.01630	.16840	.13420	.16900	.13470	.03360	-.00790	.05290	-.09120	3.06400
2.000	4.863	.06290	.16870	.13410	.16270	.12800	.03410	.07710	.04100	.31110	.46980
1.996	6.974	.13460	.17320	.13770	.15550	.11980	.03530	.15460	.03240	.77710	.58510
1.996	8.979	.20290	.18640	.15110	.15240	.11670	.03530	.22950	.02680	1.08900	.61820
1.996	11.110	.27660	.20600	.17160	.14860	.11380	.03480	.39240	.01430	1.34300	.63610
1.996	13.140	.34920	.23030	.19630	.14490	.11000	.03480	.47190	.01070	1.51600	.64700
1.996	15.230	.41630	.25020	.22450	.13930	.10440	.03500	.54930	.00840	1.65200	.65450
1.996	17.210	.48430	.29310	.25970	.13550	.09510	.03820	.64080	.00750	1.65200	.65580
1.996	19.420	.56000	.33670	.30770	.13350	.08790	.04000	.72480	.00630	1.61600	.65690
1.997	21.490	.62630	.38770	.35010	.13130	.08040	.03970	.80440	.00600	1.56300	.65730
2.002	23.500	.68650	.43860	.40180	.12850	.06830	.04050	.89750	.00570	1.51000	.65770
2.005	25.650	.75540	.50010	.46320	.12580	.06280	.04050	.98640	.00570	1.44200	.65790
2.005	27.740	.81680	.56640	.52910	.12120	.07910	.04150	.98640	.00570	1.44200	.65790
2.005	.03779	-.00300	-.00310	-.00310	-.00315	-.00324	.00014	.04306	-.00601	.20376	.05338

2017 SEP 28

***** SUBJECT DATA AMES 66-736 (C-143) *****

(RB 1007) (24 AUG 73)

REF: 66-274 0443 B1D C5 D7 M3 F4 W07E16 VSRS

PARAMETRIC DATA

BETA	=	,000	ELEVON	=	-20,000
ALLAN	=	,000	SPORR	=	34,900
BODUP	=	-14,200	RUBBER	=	,000
ELEV-L	=	-20,000	ELEV-R	=	-20,000

REFERENCE DATA

SAEP =	2390,0000	58.FT.	10AP =	1079,4300	IN.
LAEP =	474,8000	IN.	11AP =	,0000	IN.
BAEP =	936,6800	IN.	20AP =	400,0000	IN.
SCALE =	,0150	SCALE			

$\text{S.E.} = 2.56$ GRADIENT INTERVAL = -5.00 / 5.00

WACH	ALPHA	CL	(°)	COF	CA	CAP	CAB	CH	CLM	L/L	KP/L
.996	-2.116	-4.2220	..9670	.09600	.12100	.08030	.04040	-.45990	.19540	-3.00000	.62360
.601	-.096	-.25370	.12550	.08400	.12490	.06400	.04000	-.32590	.19250	-2.59800	.67110
.602	2.007	-.24970	.11560	.07560	.12530	.06440	.03940	-.24590	.19660	-2.16100	.94950
.603	4.087	-.14290	.10930	.06690	.12080	.07680	.03950	-.13490	.19040	-1.50800	1.10900
.604	6.190	-.04430	.10740	.06740	.11150	.07120	.03920	-.03290	.19050	-.41210	2.75600
.605	8.156	.05610	.10930	.07130	.10000	.06160	.03770	.07290	.19920	.53120	-.26730
.606	10.240	.16650	.12440	.06670	.09260	.05450	.03740	.16970	.19970	1.53600	.29520
.607	12.270	.26960	.15590	.11700	.09470	.05550	.03640	.29640	.16360	1.73500	.45030
.608	14.350	.36120	.19210	.15310	.09660	.05620	.03950	.39790	.16460	1.66000	.49360
.609	16.490	.46270	.22610	.19970	.09650	.05670	.04120	.51190	.17710	1.92700	.55630
.610	18.550	.55180	.26710	.24490	.09770	.05370	.04370	.61410	.17640	1.92100	.55640
.611	20.540	.64660	.34290	.29920	.09410	.04750	.04600	.72600	.16350	1.66600	.56960
.612	22.600	.71150	.39900	.34960	.09490	.04170	.05090	.81020	.19620	1.76300	.57340
.613	24.640	.75060	.44140	.39060	.08810	.03230	.05360	.86650	.21760	1.70100	.57010
.614	26.650	.77270	.47350	.40490	.08450	.02340	.05150	.85600	.24690	1.56200	.55600
.615	28.640	.78417	.50446	.40439	-.00032	-.00023	-.00716	.04654	-.00041	.26095	.05363

95% CONFIDENTIAL INTERVAL = -5.00V 5.00V

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	QM	L/D	XCP/L
.902	-1.904	-.40160	.17500	.12670	.16180	.11330	.04790	-.40710	.22510	-2.29400	.95760
.903	.194	-.26360	.15940	.10930	.18020	.11020	.04960	-.26330	.20930	-1.78100	.92440
.901	2.273	-.13220	.14990	.10130	.15580	.10720	.04600	-.11460	.04600	-1.01500	1.11900
.900	4.402	-.01070	.15070	.10240	.15110	.10280	.04780	.00060	.16490	-.07130	-66.76100
.903	6.463	.12540	.16810	.11760	.15060	.10210	.04790	.14330	.14660	.75520	.29580
.903	6.939	.24530	.19020	.14280	.15160	.10380	.04730	.27090	.12850	.12900	.49040
.902	10.680	.37440	.22230	.17270	.14920	.09830	.04950	.40920	.10540	1.68300	.56790
.900	12.710	.77590	.25800	.20790	.14700	.09580	.03590	.52180	.09550	1.64300	.59440
.900	14.780	.54890	.30060	.24790	.15090	.09610	.03290	.60730	.09660	1.62500	.60300
.901	16.910	.61260	.34720	.29430	.15230	.09690	.05400	.69300	.10340	1.78200	.80670
.903	18.980	.70220	.40700	.35070	.15660	.09730	.05810	.79630	.11050	1.72900	.61040
.899	21.010	.75040	.45820	.39340	.15870	.09140	.06340	.86340	.13340	1.63800	.60490
.899	23.090	.78990	.51410	.44560	.16320	.08970	.07270	.92830	.16250	1.53700	.53740
.899	25.140	.80360	.56170	.49130	.16610	.08630	.06810	.96810	.20040	1.43500	.58000
.903	27.190	.81810	.59670	.52670	.15700	.07750	.07900	1.00000	.22500	1.37100	.57960
.902		.86200	-.00390	-.00384	-.00171	-.00167	-.00009	.06470	-.00962	.33366	-9.96881

DATE 26 SEP 75

TABULATED SOURCE DATA AVE'S 66-706 (M43)

AXES 66-706 M43 B10 C5 D7 M5 P4 M57E18 VMS

(RST007) (24 AUG 75)

REFERENCE DATA

SURF = 2880.0000 58.17. 198P = 1078.4870 IN.
 LREF = 474.8000 IN. 198P = .0000 IN.
 SURF = 936.8000 IN. 198P = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = -80.000
 ALLUON = .000 SPORER = 34.800
 SCDFP = -14.800 RUDDER = .000
 ELVH-L = -80.000 ELVH-R = -80.000

PARAMETRIC DATA

RUN NO. 24/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.199	-1.808	-27680	.21500	.15480	.20820	.14600	.09770	-.28890	.18080	-1.28900	.88820
1.202	-.299	-14980	.20360	.14490	.20440	.14570	.09650	-.14850	.13110	-.173470	1.02400
1.204	2.362	-10890	.20250	.14430	.20340	.14530	.09640	-.02150	.12340	-.14800	2.71100
1.196	1.370	.09130	.20990	.14920	.20200	.14110	.09980	.10770	.10210	.43470	.38100
1.201	6.829	.19440	.22470	.16420	.20310	.13990	.09880	.21890	.08370	.68780	.58700
1.202	9.705	.30090	.24630	.18560	.19790	.13650	.08000	.33430	.07350	1.22500	.58130
1.202	10.630	.40740	.27660	.21310	.19310	.13250	.08110	.45210	.06200	1.47300	.81100
1.202	12.860	.50850	.31280	.25180	.19130	.12900	.08120	.56540	.05320	1.68700	.82640
1.199	14.970	.61670	.35840	.29780	.16750	.12390	.06240	.65522	.04020	1.71900	.63910
1.199	17.090	.71750	.41340	.34980	.18420	.11770	.06530	.80740	.02800	1.73800	.64760
1.201	.170	.79210	.46830	.40220	.16230	.11230	.06450	.90200	.02700	1.69100	.64930
1.200	21.290	.86250	.52500	.45870	.17610	.10500	.07000	.99430	.03240	1.64300	.64840
1.199	23.390	.91350	.57890	.51430	.16940	.09900	.06920	1.06400	.05070	1.57800	.64300
1.200	25.390	.95720	.62180	.55810	.16400	.09360	.06690	1.10400	.07990	1.49200	.63410
1.200	27.430	.98290	.65750	.59950	.15380	.08850	.06510	1.13100	.11250	1.41900	.62440
GRADIENT		.03761	-.00077	-.00261	-.00764	-.00072	.00327	.06122	-.01240	.27087	-.00460

RUN NO. 23/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.900	-1.948	-19680	.19910	.14920	.19120	.14230	.04610	-.20320	.11220	-.99240	.85740
1.901	.136	-10000	.18730	.13930	.18780	.13950	.04740	-.09950	.09380	-.55380	.99800
1.900	2.231	-.00500	.18510	.13690	.18550	.13690	.04600	.00220	.07640	-.02710	-11.79000
1.901	4.306	.09030	.18750	.13970	.18020	.13220	.04730	.10410	.05940	.48180	.45800
1.903	6.429	.18080	.19740	.15050	.17790	.12880	.04680	.20150	.04700	.91460	.57880
1.901	8.536	.26870	.21640	.17110	.17410	.12730	.04630	.29780	.03710	1.24200	.61590
1.901	10.640	.36350	.24050	.19390	.16930	.12190	.04690	.40170	.02490	1.51200	.63790
1.901	12.67	.45020	.27300	.22560	.18780	.11910	.04790	.49920	.01370	1.64900	.65020
1.902	14.670	.53700	.31110	.26390	.16290	.11400	.04830	.59880	.00610	1.72800	.65640
1.902	16.690	.61590	.35440	.30610	.15830	.10560	.04990	.69220	.00050	1.73800	.65970
1.900	18.970	.69740	.40740	.35750	.15830	.10560	.05250	.79200	-.00510	1.71200	.66230
1.900	21.090	.77480	.46690	.41440	.15690	.10050	.05590	.89080	-.00870	1.65900	.66350
1.900	23.170	.84630	.53110	.47890	.15480	.09560	.05880	.98880	-.00450	1.59700	.66310
1.900	25.220	.91780	.59820	.54250	.14960	.08800	.06100	1.08500	-.00710	1.53400	.66230
1.499	27.340	.96980	.66190	.60800	.14280	.08190	.06000	1.18500	.00330	1.46500	.65900
GRADIENT		.04592	-.00162	-.00148	-.00170	-.00158	-.00209	.04908	-.00842	.27032	-.67438

DATE 28 SEP 73
 TABULATED SOURCE DATA AXES 88-706 (0443)
 AXES 88-706 0443 810 C5 D7 NO F4 M07E18 VSR5

(RST007) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRCORN = .000 SPOBRK = 54.900
 BOOPLP = -14.200 RUOOR = .000
 ELW-L = -20.000 ELW-R = -20.000

REFERENCE DATA

SREF = 2490.0000 54 FT. XREF = 1076.4800 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 22/ 0 RW/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

AXIS	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/O	KCP/L
1.999	-1.417	-1.12230	.16070	.12790	.19780	.12490	.03280	-.12870	.05780	-.79110	.82990
1.999	.805	-.05110	.15240	.11260	.15300	.11930	.03320	-.04950	.04590	-.33530	.99160
2.002	2.727	.02480	.15260	.11920	.15120	.11760	.03300	.03800	.03410	.16230	.27940
2.002	4.799	.09620	.15280	.11970	.14410	.11100	.03890	.10460	.02320	.43020	.57990
1.999	6.868	.16050	.16290	.13010	.14160	.10460	.03290	.18970	.01630	1.03400	.62940
1.999	8.926	.23920	.17650	.14360	.13730	.10400	.03310	.28370	.00920	1.35900	.64780
2.002	9.943	.27560	.18490	.15220	.13430	.10110	.03320	.34110	.00530	1.49800	.65370
2.002	11.035	.30980	.19070	.16210	.13270	.09900	.03360	.41680	.00290	1.59900	.65890
2.002	13.060	.37590	.22360	.19070	.13270	.09900	.03360	.49690	-.00320	1.74000	.66230
2.002	15.200	.44540	.25590	.22240	.13020	.09540	.03610	.57660	-.00510	1.75700	.66320
2.002	17.280	.51500	.28320	.25670	.12700	.09080	.03770	.66020	-.00710	1.73500	.66390
2.002	19.350	.58200	.33340	.29970	.12360	.08560	.03860	.74500	-.00760	1.66400	.66370
2.002	21.390	.64910	.38550	.34940	.12230	.08340	.03820	.83420	-.01040	1.62900	.66450
2.002	23.510	.71600	.44060	.40540	.11780	.07920	.03640	.92090	-.01020	1.56800	.66400
1.999	25.560	.78220	.49860	.46400	.11210	.07390	.03510	1.01400	-.01160	1.49500	.66420
1.999	27.700	.84760	.56700	.53270	.10870	.06860	.03400	.103764	-.01326	.22495	-.07055
GRADIENT		.03521	-.00115	-.00116	-.00204	-.00205	.00709				

DATE 24 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 B10 C5 D7 M5 P4 WFT18 VRS

(RB1008) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLUMON = 5.000 SPORON = 34.900
 BOOFLP = -14.800 RUDDOR = .000
 ELVH-L = 5.000 ELVH-R = -5.000

REFERENCE DATA

SRP = 8990.0000 58.0 FT. XARP = 1076.4800 IN.
 LRF = 474.8000 IN. YARP = .0000 IN.
 BRP = 936.8000 IN. ZARP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 31/ 0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.993	-2.070	-1.0080	.10090	.03360	.09720	.04990	.04810	-.10170	.03690	-.99290	.76670
.993	-.035	-.00430	.09780	.03250	.09780	.03250	.04310	-.00440	.03780	-.04800	3.69000
.993	2.149	.08900	.09790	.03520	.09470	.03170	.04300	.08880	.03900	.86810	.90280
.999	4.271	.18480	.10350	.03900	.08910	.04470	.04440	.19380	.03690	1.80800	.58900
.901	6.267	.28770	.11190	.06960	.07980	.03730	.04210	.29820	.03680	2.57100	.81590
.800	8.415	.39510	.12890	.08700	.06970	.02730	.04200	.40970	.03570	3.08500	.82880
.800	10.450	.50340	.16370	.11990	.06940	.02490	.04360	.52600	.02910	3.08400	.64020
.800	12.450	.58030	.20850	.16280	.07880	.03180	.04800	.61180	.02870	2.78500	.64320
.999	14.500	.66840	.23760	.20970	.08200	.03250	.04850	.71170	.02280	2.59500	.64650
.998	16.810	.77290	.31930	.28850	.08510	.03210	.05180	.83190	.01370	2.42100	.65410
.999	18.630	.88100	.38600	.33510	.08790	.03060	.05310	.95810	.00490	2.28300	.65820
.999	20.750	.97030	.45410	.40310	.08790	.02630	.05370	1.06800	.01000	2.13800	.65060
.999	22.790	1.01400	.51040	.45530	.07780	.01790	.05840	1.13500	.02920	1.98700	.63510
.999	24.750	.98180	.53340	.47190	.07350	.00580	.06620	1.11500	.07770	1.84000	.61720
.998	26.790	.90260	.54210	.47120	.07800	-.00140	.07680	1.04800	.12540	1.66200	.61720
		.84494	.00035	.00089	-.00130	-.00078	-.00034	.04663	.00031	.44049	-.17940

RUN NO. 30/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.999	-1.766	-.09370	.11810	.07350	.11510	.07080	.04340	-.09730	.04500	-.79330	.88340
.901	.261	.08740	.11510	.07070	.11500	.07080	.04310	.08090	.03440	.17700	.07100
.999	2.449	.18080	.12140	.07880	.11610	.07350	.04840	.12580	.03380	.98340	.98340
.901	4.567	.23870	.13700	.09240	.11760	.07290	.04480	.24890	.02790	1.72800	.61980
.902	6.832	.33770	.15860	.11690	.11650	.07650	.04190	.35360	.02220	2.11800	.63780
.901	8.695	.42500	.18090	.14450	.12250	.07780	.04580	.44860	.01700	2.50000	.84840
.800	10.790	.51520	.22430	.17880	.12590	.07990	.04680	.54810	.01000	2.89700	.65340
.902	12.880	.62120	.27230	.22650	.12700	.07990	.04850	.66830	-.00530	2.28100	.66290
.902	14.950	.70630	.32540	.27610	.13190	.08090	.05860	.87040	-.00360	2.04800	.66280
.999	17.030	.79190	.38660	.33230	.13770	.07790	.06400	.96880	-.00050	1.92400	.66140
.904	19.150	.86870	.45140	.39080	.14200	.07990	.07030	1.03800	-.02110	1.81200	.65270
.999	21.130	.91760	.50630	.44040	.14160	.07990	.08430	1.08100	.03780	1.66500	.64090
.900	23.350	.93460	.56140	.48340	.14550	.08030	.09480	1.12800	.08370	1.55300	.63340
.902	25.250	.95500	.61500	.52800	.14880	.05280	.09480	1.16800	.09240	1.46800	.63250
.901	27.320	.99980	.66110	.59360	.14830	.04800	.09430	1.20100	-.00246	.59401	-.00401
		.95134	.00299	.00306	.00041	.00045	-.00024	.05351			

GRADIENT



(RST006) (24 AUG 73)

TABULATED SOURCE DATA AVES 66-706 (0443)

DATE 28 SEP 73

AVES 66-706 0443 B10 C5 D7 M3 F4 M07E10 VSR1

PAR. ETIC DATA

WETA = .000 ELEVON = .000
ALLJON = 5.000 SPORRK = 54.900
BOOPLP = -14.200 RUDDER = .000
ELVHL = 5.000 ELVHL-R = -5.000

REFERENCE DATA

WREF = 2000.0000 88.FT. WREF = 1076.4000 IN.
LREF = 474.6000 IN. WREF = .0000 IN.
BREF = 936.6000 IN. WREF = 400.0000 IN.
SCALE = .0113 SCALE

RUN NO. 29/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

W A	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.000	-1.077	-0.0840	.17200	.12040	.17050	.11830	.05250	-.07495	.04700	-.40220	.68570
1.200	.404	.04670	.17180	.11930	.17130	.11900	.05220	.04790	.06460	.27210	.47840
1.202	2.545	.17660	.17660	.12730	.17130	.12010	.05120	.16640	.00340	.86810	.63260
1.203	4.616	.17660	.17660	.12730	.17130	.11650	.05250	.26510	-.01510	1.39700	.67890
1.204	6.729	.17660	.17660	.12730	.17130	.11650	.05250	.40090	-.03030	1.74700	.68700
1.205	8.821	.17660	.17660	.12730	.17130	.11650	.05250	.50950	-.04270	1.93600	.64990
1.206	10.870	.17660	.17660	.12730	.17130	.11650	.05250	.61660	-.05130	2.01200	.69120
1.207	12.990	.17660	.17660	.12730	.17130	.11650	.05250	.74110	-.06460	2.04000	.69360
1.208	15.100	.17660	.17660	.12730	.17130	.11650	.05250	.86950	-.08230	2.01500	.69310
1.209	17.270	.17660	.17660	.12730	.17130	.11650	.05250	.98640	-.09130	1.93300	.69190
1.210	19.290	.17660	.17660	.12730	.17130	.11650	.05250	1.08700	-.09710	1.84800	.68570
1.211	21.360	.17660	.17660	.12730	.17130	.11650	.05250	1.16200	-.08350	1.76500	.67550
1.212	23.480	.17660	.17660	.12730	.17130	.11650	.05250	1.21000	-.05240	1.66000	.66130
1.213	25.480	.17660	.17660	.12730	.17130	.11650	.05250	1.21700	-.00440	1.55600	.63740
1.214	27.560	.17660	.17660	.12730	.17130	.11650	.05250	1.26800	.00940	1.48000	-.02096
1.215								.05096	-.00987	.28611	

RUN NO. 26/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

W A	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.496	-1.063	-0.0830	.17040	.12060	.16930	.11840	.04690	-.06900	.02560	-.37250	.70360
1.501	.210	.05660	.16700	.11600	.16690	.11790	.04630	.02720	.01000	.15930	.52950
1.502	2.300	.11810	.17010	.12190	.16320	.11700	.04760	.12490	-.00960	.69480	.67610
1.503	4.377	.20630	.17970	.13290	.16320	.11630	.04660	.22140	-.02020	1.16700	.69250
1.504	6.521	.30230	.19530	.14930	.15970	.11340	.04600	.32250	-.03340	1.54000	.69700
1.505	8.596	.39110	.21920	.17260	.15830	.11140	.04620	.41950	-.04530	1.76500	.69860
1.506	10.690	.46310	.25360	.20690	.15920	.11100	.04670	.52370	-.05960	1.91300	.70060
1.507	12.740	.57240	.29360	.24570	.15100	.10740	.04670	.62300	-.07190	1.95000	.70130
1.508	14.670	.73950	.33750	.28450	.15100	.10360	.05000	.71960	-.08700	1.94000	.69790
1.509	17.010	.81660	.36840	.33930	.15100	.10360	.05000	.82460	-.08700	1.84000	.69640
1.510	19.090	.89160	.50910	.39420	.15310	.09900	.05340	.91670	-.09690	1.73200	.69410
1.511	21.140	.96030	.52760	.45640	.15190	.09700	.05430	1.01500	-.09690	1.61000	.69180
1.512	23.260	1.02500	.65100	.59950	.14920	.09220	.05660	1.20200	-.09380	1.57500	.68780
1.513	25.350	1.08400	.72540	.67240	.14450	.08490	.05910	1.29700	-.09210	1.49500	.68540
1.514	27.420	1.04100	.00149	.00196	-.00062	-.00035	-.00036	.04636	-.00738	.24665	-.00746

DATE 29 SEP 75

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TABULATED SOURCE DATA ANES 66-T08 (0443)

(RST008) (24 AUG 75)

ANES 66-T08 0A43 B10 C5 D7 H3 F4 W8T616 V8H5

REFERENCE DATA

SREF = 2040.0000 50. FT. SREF = 1076.4800 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 5.000 SPOBRK = 54.800
 SCOLP = -14.200 RUDDER = .000
 ELVN-L = 5.000 ELVN-R = -5.000

RUN NO. 27/ 0 RUL = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
2.000	-1.353	-.03970	.14370	.10890	.14280	.10750	.03480	-.04310	.00130	-.27810	.67080
2.003	.092	.02980	.14280	.10680	.14250	.10640	.03520	.03150	-.00720	.80900	.74180
2.000	2.780	.10020	.14700	.11100	.14210	.10590	.03590	.10720	-.01750	.68140	.71850
2.000	4.832	.17030	.15900	.11880	.14010	.10380	.03570	.18270	-.02690	1.09900	.71280
2.000	6.885	.24080	.16800	.15210	.13870	.10180	.03570	.25880	-.03500	1.42900	.70840
2.003	9.002	.30660	.18750	.15130	.13680	.10020	.03610	.33430	-.04230	1.64700	.70520
2.003	11.090	.37700	.20630	.17190	.13210	.09510	.03680	.41000	-.04650	1.81000	.70080
2.003	13.150	.44520	.24080	.20510	.13200	.09330	.03620	.48830	-.05170	1.85000	.69790
2.003	15.220	.51190	.27320	.23850	.12920	.09330	.03580	.56580	-.05570	1.87400	.69520
2.003	17.310	.58150	.31370	.28140	.12650	.09180	.03480	.64850	-.05910	1.89300	.69280
2.003	19.380	.65330	.36110	.32740	.12420	.08850	.03590	.73610	-.06330	1.80900	.69080
2.003	21.460	.72250	.41530	.38160	.12190	.08570	.03670	.82440	-.06720	1.74000	.68920
2.003	23.550	.78780	.47410	.44050	.11990	.08320	.03650	.91180	-.07090	1.66200	.68780
2.001	25.620	.85630	.53940	.50520	.11810	.07810	.03780	1.00300	-.07420	1.58800	.68640
2.001	27.710	.92110	.61180	.57710	.11530	.07410	.03680	1.10000	-.08040	1.50500	.68610
2.001	GRADIENT	.03596	.00186	.00171	-.00040	-.00056	.00017	.03652	-.00460	.22291	.00494

DATE 28 SEP 73

TABULATED SOURCE DATA AVES 66-T06 (0443)

(RST009) (24 AUG 73)

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AVES 66-T06 0443 810 C5 D7 M3 P4 M07E18 VSR3

REFERENCE DATA

MACH = 2990.0000 53.77. XMRP = 1076.4000 IN.
 LMRP = 474.8000 IN. YMRP = .0000 IN.
 DMRP = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AIRCON = 9.000 SPORIN = 24.900
 BOOFLP = -14.200 RUDDER = .000
 ELVNL = -9.000 CLVNL = -18.000

RUN NO. 36/0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.800	-2.185	-2.7780	.10770	.06440	.09700	.05370	.04270	-.28870	.13030	-2.99900	.62480
.805	.019	-1.7920	.10360	.05940	.10070	.05650	.04190	-.17960	.12710	-1.76100	.91370
.810	2.083	-1.0940	.09530	.05240	.09670	.05960	.04160	-.09130	.13190	-.99480	1.17700
.815	4.072	-.00090	.09280	.05120	.09280	.05090	.04090	.00570	.12980	-.07980	-7.46000
.820	6.215	.10120	.09560	.05480	.06410	.04310	.04010	.11090	.12930	1.03600	.24320
.825	8.169	.20410	.10460	.06310	.07440	.03290	.04040	.21690	.12720	1.93100	.45080
.830	10.280	.31180	.13090	.09070	.07270	.03230	.04090	.32990	.12320	2.36900	.52650
.835	12.370	.41110	.16800	.12730	.07620	.03410	.04200	.43760	.11850	2.44700	.56310
.840	14.390	.50040	.20920	.16790	.07820	.03560	.04280	.53670	.11580	2.39800	.58290
.845	16.340	.61100	.26640	.22240	.08180	.03680	.04320	.66080	.10440	2.28900	.60350
.850	18.560	.71290	.32240	.27780	.07880	.03170	.04690	.77840	.09870	2.21100	.61470
.855	20.620	.81020	.36390	.33680	.07400	.02370	.04270	.89360	.09910	2.11000	.62030
.860	22.680	.89670	.40590	.39870	.07090	.01590	.03360	.99710	.10680	1.98400	.62170
.865	24.720	.91380	.49390	.43870	.06670	.00520	.03910	1.03600	.13550	1.84900	.61320
.870	26.710	.84360	.49980	.44120	.06740	.00170	.06360	.97830	.18260	1.68800	.59320
.875	.04106	-.00241	-.00220	-.00220	-.00070	-.00031	-.00024	.04574	.00015	.40832	-1.16224

RUN NO. 35/0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.800	-1.823	-2.5780	.13270	.06510	.12440	.07680	.04730	-.26190	.13320	-1.94300	.66920
.805	.296	-1.2540	.12660	.06010	.12730	.08080	.04580	-.12470	.13400	-.99040	1.04400
.810	2.368	-.00700	.12440	.07910	.12480	.07920	.04440	-.00180	.11770	-.03590	23.91000
.815	4.480	.12150	.13300	.08910	.12310	.07910	.04320	.13150	.10280	.91370	.36040
.820	6.571	.23010	.15090	.10700	.12320	.07940	.04330	.24580	.09430	1.52900	.52290
.825	8.671	.33720	.18340	.13540	.12750	.08270	.04380	.36050	.06190	1.86900	.57920
.830	10.880	.43580	.21440	.16740	.12620	.08040	.04630	.46850	.07300	2.03300	.61430
.835	12.670	.51250	.25170	.20390	.13120	.08220	.04740	.55570	.06790	2.03600	.61630
.840	14.890	.59830	.29670	.24270	.13100	.07780	.05190	.65370	.06690	2.03400	.62340
.845	17.070	.68510	.34930	.29670	.13280	.07780	.05310	.75740	.07160	1.96100	.62620
.850	19.020	.75910	.40510	.34830	.13550	.07560	.05960	.84960	.07740	1.87400	.62740
.855	21.120	.80660	.46170	.40470	.13660	.07820	.05960	.92040	.10500	1.75400	.61920
.860	23.240	.82720	.50790	.44150	.14020	.06790	.07190	.96060	.14200	1.62900	.60710
.865	25.200	.85640	.55900	.48570	.14110	.06700	.06160	1.01300	.16780	1.53200	.60070
.870	27.230	.90370	.62130	.54200	.13890	.04970	.06830	1.04800	.17450	1.45300	.60270
.875	.05989	-.00006	-.00032	-.00032	-.00031	.00025	-.00065	.06212	-.00199	.45309	1.00650

DATE 26 SEP 72

TABULATED SOURCE DATA ANES 66-706 (0443)

ANES 66-706 0443 BID C5 D7 H5 P4 167218 VRS5

(R81009) (24 AUG 73)

REFERENCE DATA

SREF = 2890.0000 59.17. XREF = 1076.4620 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6900 IN. ZREF = 400.0000 IN.
 SCALE = .0130 SCALE

RUN NO. 34/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 5.000 SPOBRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -5.000 ELVN-R = -15.000

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.200	-1.026	-1.0940	.10400	.12600	.17830	.12330	.03480	-.17520	.11690	-.92100	.90360
1.205	.364	-.04090	.17770	.12400	.17800	.12400	.03300	-.03930	.09060	-.82790	1.48500
1.201	2.503	.07670	.18090	.12720	.17730	.12360	.03310	.00460	.06630	.42430	.37960
1.202	4.997	.19410	.18210	.13690	.17600	.12260	.03300	.20890	.04440	1.01000	.56400
1.201	6.744	.30220	.21170	.15690	.17480	.11960	.03490	.32500	.02750	1.42700	.62970
1.202	8.962	.41320	.24070	.16360	.17320	.11970	.03710	.44560	.01460	1.71700	.64820
1.201	10.900	.50250	.27230	.17360	.17180	.11230	.03910	.54510	.00730	1.84500	.65580
1.199	13.060	.60470	.31530	.25540	.17030	.10660	.06110	.60040	.00040	1.91600	.65950
1.203	15.270	.70690	.36820	.37610	.16930	.10320	.06370	.78070	-.01130	1.92500	.66320
1.201	17.320	.81060	.42930	.36580	.16670	.10190	.06610	.90190	-.02340	1.84600	.67010
1.199	19.580	.89370	.49630	.42970	.16610	.09740	.06980	1.00600	-.02360	1.80100	.66910
1.199	21.350	.94770	.55060	.48500	.16400	.09420	.06800	1.08200	-.01220	1.71600	.66400
1.199	23.690	.98960	.60360	.54030	.15600	.08710	.06800	1.14900	.00940	1.64000	.65740
1.200	25.790	.97320	.63960	.57440	.15170	.08040	.07070	1.15400	.05520	1.52400	.64890
1.201	27.790	1.00300	.66820	.62660	.14030	.07310	.06680	1.20700	.07100	1.46200	.63900
GRADIENT		.05642	.70127	.00155	-.00036	-.00012	-.00016	.05962	-.01159	.30114	-.09343

RUN NO. 33/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.499	-1.937	-1.12600	.17820	.12620	.17360	.12390	.04900	-.13200	.07430	-.70700	.86130
1.501	.186	-.02750	.17070	.12160	.17010	.12170	.04770	-.02700	.03490	-.16160	1.36600
1.502	2.435	.07300	.17030	.12340	.16710	.12010	.04650	.06010	.03570	.42650	.50070
1.502	4.487	.16310	.17660	.13060	.16350	.11710	.04600	.17640	.02070	.92270	.61810
1.502	6.519	.25460	.19060	.14530	.16010	.11460	.04520	.27480	.00600	1.33600	.64980
1.503	8.703	.34600	.21280	.16790	.15780	.11260	.04490	.37410	-.00400	1.62700	.66390
1.496	10.750	.43960	.24230	.19710	.15610	.11000	.04590	.47730	-.01630	1.81500	.67220
1.499	12.640	.52670	.26030	.23540	.15570	.10770	.04760	.57760	-.02390	1.86600	.37600
1.499	14.930	.61030	.32180	.27320	.15360	.10350	.04970	.67260	-.03340	1.89700	.67770
1.499	17.090	.69240	.37190	.32250	.15200	.10040	.05120	.77110	-.03920	1.80000	.67820
1.499	19.340	.77570	.43100	.36060	.14980	.09630	.05260	.87470	-.04570	1.72600	.67750
1.499	21.370	.84790	.49110	.43970	.14670	.09330	.05480	.96620	-.04730	1.64300	.67340
1.502	23.440	.91350	.55560	.50340	.14210	.08950	.05630	1.03900	-.04050	1.56000	.37250
1.502	25.690	.97960	.62610	.57330	.14210	.08360	.05630	1.15500	-.04050	1.46800	.67020
1.502	27.890	1.03500	.69560	.64310	.13590	.07640	.05940	1.24000	-.03950	1.36800	.67020
GRADIENT		.04465	.70019	.00041	-.00157	-.00010	-.00047	.04784	-.00835	.25397	-.07607



DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0A43)

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(INST009) (24 AUG 73)

AXES 66-706 0A43 BID C5 D7 NS F4 M07E10 VSR5

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = 9.000 SPOON = 54.900
/OZPLP = -14.800 RUDDER = .000
ELWH-L = -5.000 ELWH-R = -15.000

REFERENCE DATA

SATP = 2000.0000 50.FT. 1000P = 1079.4000 IN.
LREF = 474.8000 IN. YREF = .0000 IN.
BREF = 936.6000 IN. ZREF = 400.0000 IN.
SCALE = .0150 SCALE

RUN NO. 32/ 0 RV/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CTD	CA	CAP	CAB	CN	CLM	L/D	KCP/L
1.996	-1.620	-.06340	.14870	.11300	.14430	.11080	.03310	-.08770	.03060	-.80960	.79300
1.996	.795	.00080	.14110	.10750	.14100	.10750	.03290	.00860	.01680	.00460	-1.92600
1.996	2.001	.06920	.14440	.11070	.14090	.10710	.03380	.07620	.00920	.47900	.81680
1.996	4.079	.14220	.14930	.11540	.13640	.10260	.03340	.15440	-.00080	.95450	.66170
1.996	6.815	.20160	.16190	.12620	.13640	.10260	.03360	.22330	-.00900	1.27000	.67140
1.996	8.995	.26260	.17760	.14350	.13150	.09670	.03440	.30700	-.01580	1.58900	.67830
1.996	11.000	.34850	.20020	.16590	.13040	.09330	.03460	.37840	-.02010	1.73000	.67900
1.996	13.170	.41740	.23020	.19550	.12910	.09340	.03540	.45860	-.02460	1.81300	.67910
1.996	15.220	.48370	.26210	.22740	.12600	.09000	.03570	.53550	-.02850	1.84500	.67900
1.996	17.290	.55510	.30230	.26760	.12280	.08620	.03610	.62010	-.02970	1.83600	.67710
1.996	19.430	.62620	.34780	.31310	.11970	.08290	.03660	.70630	-.03200	1.80100	.67620
1.996	21.460	.69230	.39710	.36250	.11620	.07910	.03690	.78960	-.03460	1.74400	.67570
1.996	23.500	.75720	.45410	.41920	.11360	.07560	.03770	.87560	-.03690	1.66700	.67500
1.996	25.560	.82030	.51430	.47990	.10960	.07190	.03770	.96200	-.03860	1.59500	.67430
1.996	27.690	.88690	.58410	.54970	.10510	.06620	.03650	1.05700	-.04170	1.52500	.67410
1.999			.03469	.00044	-.00113	-.00113	.03720	.03720	-.04482	.23472	.06287

GRADIENT

DATE 28 SEP 73

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TABULATED SOURCE DATA AYES 66-706 (0443)

(RET010) (24 AUG 73)

AYES 66-706 0443 B10 C5 D7 M3 W87E16 Y8R3

REFERENCE DATA

SREF = 2000.0000 50.FT. WARP = 1076.4000 IN.
 LREF = 474.8000 IN. YARP = .0000 IN.
 BREF = 936.6000 IN. ZARP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPOBRK = 34.900
 RUDDER = .000 ELVN-L = .000
 ELVN-R = .000

RUN NO. 36/ 0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAS	CN	CLM	L/D	XCP/L
1.902	-1.906	-.08060	.16390	.11490	.16180	.11250	.04660	-.06620	.02270	-.37100	.76240
1.903	.217	.03550	.16230	.11310	.16220	.11290	.04670	.03310	.00780	.20010	.37520
1.903	2.566	.12380	.16610	.11680	.16090	.11150	.04910	.13000	-.00710	.74170	.67950
1.903	4.466	.21460	.17820	.12990	.16090	.11200	.04640	.22600	-.02100	1.20300	.69290
1.902	6.366	.30490	.19470	.14590	.15650	.10930	.04680	.32500	-.03270	1.56600	.69590
1.902	8.726	.40040	.21990	.17060	.15660	.10690	.04910	.42910	-.04580	1.82100	.69610
1.904	10.660	.49200	.25450	.20330	.15720	.10710	.04970	.53110	-.05960	1.93300	.70010
1.904	12.790	.57190	.29230	.24250	.15900	.10740	.05110	.62210	-.06640	1.95200	.69930
1.902	15.010	.65370	.33640	.28790	.15700	.10480	.05180	.72100	-.07530	1.93800	.69750
1.902	16.940	.72970	.38450	.33240	.15450	.09960	.05390	.81010	-.08120	1.89800	.69560
1.902	19.110	.81030	.44430	.39240	.15320	.09780	.05650	.91110	-.08780	1.82400	.69440
1.902	21.250	.89620	.51110	.45760	.15320	.09590	.05740	1.01100	-.08930	1.73400	.69160
1.901	23.290	.95170	.57690	.52350	.14910	.09000	.05680	1.10200	-.08650	1.65000	.68870
.901	25.430	1.01400	.64710	.59380	.14310	.08280	.06140	1.19400	-.08180	1.56700	.68430
1.499	27.640	1.07800	.71990	.66470	.14310	.08280	.06140	1.28300	-.07750	1.48800	.66170
GRADIENT		.04314	.00219	.03228	-.00019	-.00012	-.00004	.04606	-.00697	.84764	-.00771

RUN NO. 37/ 0 RV/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAS	CN	CLM	L/D	XCP/L
1.997	-1.957	-.04410	.14400	.10760	.14270	.10650	.03570	-.04600	.00110	-.30810	.66030
2.003	.754	.03250	.14050	.10350	.14010	.10280	.03670	.03430	-.00920	.29190	.73540
2.006	2.855	.10410	.14660	.10980	.14120	.10440	.03650	.11120	-.01020	.70990	.71840
2.006	4.641	.17080	.15450	.11620	.13950	.10310	.03610	.18350	-.02630	1.10600	.71120
2.001	7.071	.24610	.16690	.13180	.13690	.09990	.03660	.28500	-.03440	1.16000	.70640
2.001	8.946	.30620	.18550	.14880	.13570	.09450	.03710	.33130	-.03910	1.65000	.70220
2.001	11.130	.37440	.21070	.17320	.13450	.09630	.03820	.40810	-.04340	1.77700	.69510
2.001	13.150	.44300	.24250	.20460	.13310	.09460	.03840	.46660	-.04780	1.82700	.69310
2.003	15.280	.51070	.27740	.24050	.13310	.09460	.03840	.56560	-.05120	1.84100	.69240
2.003	17.330	.57790	.31350	.27780	.12710	.08970	.03740	.64500	-.05420	1.84300	.69000
2.071	19.360	.64760	.36120	.32680	.12590	.08940	.03640	.73070	-.05650	1.79300	.68760
2.000	21.330	.71620	.41690	.38160	.12510	.08730	.03760	.81920	-.05940	1.71800	.68590
2.020	23.570	.78120	.47490	.43950	.12280	.08400	.03640	.90800	-.06210	1.64500	.68450
2.000	25.600	.84600	.53690	.50330	.11860	.07950	.03650	.99750	-.06470	1.57500	.68320
2.001	27.640	.91210	.61060	.57370	.11420	.07450	.03910	1.09200	-.06940	1.49300	.66270
GRADIENT		.03330	.00172	.03172	-.00040	-.00041	.00005	.03616	-.00428	.22144	.00460

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	-16.500
AILSON	=	1.500	SPORK	=	54.900
BOOP	=	-14.200	RUDDER	=	.000
ELEV-L	=	-15.000	ELEV-R	=	-16.000

REFERENCE DATA

SECT =	2990.0000	26.FT.	196P =	1076.4800	IN.
LEEF =	474.9000	IN.	198P =	.0000	IN.
SECT =	936.6000	IN.	206P =	400.0700	IN.
SCALE =	.0150	SCALE			

CONFIDENTIAL INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAP	CAB	ON	CLM	L/D	XCP/L
.600	-2.133	-.3490	.12360	.08170	.10980	.06730	.04050	-.36980	.16010	-3.11400	.68240
.604	-.103	-.26660	.11160	.06960	.11110	.06930	.04110	-.26700	.17470	-2.56600	.67770
.602	1.960	-.80660	.10350	.06200	.11080	.06910	.04010	-.20310	.16070	-1.99700	.97800
.602	4.065	-.10060	.09950	.05600	.10640	.06460	.03960	-.09330	.17240	-1.01200	1.32000
.602	6.066	-.10070	.09710	.05660	.09730	.05660	.03930	.00310	.17760	-.07460	-19.69000
.600		-.10070	.10050	.06150	.09590	.06460	.03610	.10600	.17770	.95160	.07720
.602	6.213	.09560	.10050	.07650	.07850	.03690	.03610	.10600	.17750	1.70900	.36440
.602	10.270	.19730	.11550	.10960	.08250	.04220	.03930	.32260	.17420	1.99700	.36710
.600	12.260	.29790	.14920	.10960	.08250	.04210	.04030	.42430	.17060	2.10200	.51610
.602	14.360	.39040	.16570	.14610	.08310	.04330	.04240	.53670	.16060	2.09300	.55330
.600	16.450	.49220	.23520	.19410	.06620	.03690	.04470	.65130	.15630	2.06100	.57310
.601	18.520	.59080	.26670	.24340	.06420	.03690	.04470	.65130	.15630	2.01100	.56340
.602	20.560	.69290	.34460	.29770	.07930	.02920	.04470	.67680	.16400	1.92100	.59310
.600	22.630	.76000	.40610	.35690	.07470	.02940	.05130	.67680	.16400	1.82000	.56950
.599	24.660	.82160	.45150	.39670	.06750	.00940	.05490	.93530	.18440	1.67300	.57060
.601	26.700	.76210	.46750	.41220	.06620	.00430	.05660	.90660	.22730	1.67300	.07692
GRADIENT		.04512	-.00366	-.00361	-.00043	-.00036	-.00014	.04699	-.00063	.33266	

CONFIDENTIAL INTERVAL = -5.00/ 5.00

[illegible]

PARAMETRIC DATA

BETA =	.000	ELEVON =	-10,900
AILURON =	1,900	SPDRNK =	54,900
SCORLP =	-14,200	RUDDER =	.000
ELVH-L =	-15,000	ELVH-R =	-10,000

REFERENCE DATA

540P = 2000.0000 30. FT.
 140P = 474.0000 IN.
 240P = 936.0000 IN.
 SCALE = .0150 SCALE

GRADIENT INTERVAL = 9.00/ 5.00

WAGON	ALPHA	CL	CD	CF	CA	CAP	CAB	CH	CLN	L/D	KCP/L
1.15	-1.779	-23100	19960	14030	19230	13300	03670	-23790	15600	-1.18100	.09440
1.202	.312	-10960	19120	13240	19160	13300	03660	-110650	12640	-2.97310	1.07700
1.202	2.456	.00960	19120	13290	19070	13220	03640	.01800	10310	.05140	-1.36600
1.199	4.517	12700	19650	14040	18790	12990	03660	14230	.06110	.64000	.45610
1.200	6.613	23210	21340	15530	18520	12680	03760	25310	06620	1.06800	.56720
1.201	6.779	33960	23730	17920	16260	12390	03760	37200	03260	1.43810	.80930
1.202	10.630	44560	26670	21020	18000	12040	03680	46620	04010	1.65600	.63070
1.200	12.940	54560	30760	24790	17760	11630	06060	60790	03400	1.77400	.63960
1.201	15.000	63100	35320	29430	17460	11160	06220	72060	02160	1.83300	.64930
1.201	17.120	73960	41160	34650	17230	10630	06310	83670	00960	1.82400	.65560
1.201	19.210	82730	46620	38990	16990	10090	06610	93330	00860	1.76700	.65670
1.201	21.300	89230	52410	45670	16420	09400	06910	102100	01630	1.70200	.65430
1.201	23.370	93770	57790	51520	15660	09030	06750	109000	03740	1.62300	.64770
1.197	25.410	96320	60590	54310	15120	08170	06810	109400	06450	1.52400	.63240
1.197	27.490	94660	59660	55660	14190	07860	06330	114300	10810	1.45400	.62620
1.201	29.665	95665	590016	57003	14066	070052	06024	107000	10179	1.28657	-1.18242

40/0 BM/1 = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0A43)

(R87011) (24 AUG 73)

AMES 66-706 0A43 B10 C3 D. -3 P4 W87E18 V888

PARAMETRIC DATA

BETA = .000 ELEVON = -18.900
 ALLRON = 1.500 SPOAK = 34.900
 BODFLP = -14.200 RUDDER = .000
 ELVN-L = -15.000 ELVN-R = -18.000

REFERENCE DATA

SRCP = 2890.0000 38.5.1. SRCP = 1078.4800 IN.
 LREF = 474.6000 IN. YREF = .0000 IN.
 BREF = 938.8000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 39/0 RV/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
2.003	-1.411	-1.0770	.15650	.12360	.15360	.12090	.03210	-.11180	.04890	-.68830	.61690
2.000	.701	-.03170	.147.0	.11420	.14800	.11430	.03290	-.02990	.03670	-.21500	1.09900
2.002	2.723	.03940	.14570	.11240	.14370	.11030	.03290	.04530	.02540	.28380	.49980
2.002	4.778	.11090	.19070	.11790	.14090	.10800	.03280	.12510	.01630	.73630	.61260
2.000	6.898	.18390	.19940	.12620	.13620	.10270	.03310	.20180	.00720	1.13400	.64710
2.000	8.942	.25270	.17410	.14040	.13270	.09860	.03370	.27670	.00130	1.45200	.65830
2.000	11.030	.32280	.19420	.16060	.12880	.09460	.03380	.35380	-.00350	1.66100	.66350
2.002	13.110	.39200	.22380	.19040	.12890	.09470	.03380	.43250	-.00760	1.75300	.66830
1.997	15.180	.45790	.25440	.22020	.12580	.09010	.03510	.50890	-.01080	1.80000	.66760
1.997	17.330	.52690	.29310	.25840	.12290	.08650	.03610	.59030	-.01220	1.79800	.66740
1.999	19.330	.59350	.33410	.29880	.11880	.08140	.03720	.67060	-.01380	1.77600	.66730
2.002	21.420	.66180	.38430	.34940	.11520	.07440	.03720	.75630	-.01480	1.72200	.66690
2.002	23.520	.72770	.43910	.40440	.11290	.07440	.03750	.84250	-.01580	1.63700	.66670
2.002	25.610	.79360	.49910	.46490	.10700	.06900	.03780	.93140	-.01650	1.59000	.66630
2.002	27.690	.85910	.56660	.53240	.10260	.06390	.03840	1.02400	-.01790	1.51800	.66620
2.002		.03526	-.00095	-.00095	-.00209	-.00209	.00307	.03785	-.00530	.23081	-.06021

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66 T08 (0443)

AXES 66-T08 0443 BIC CS DT MS FA W07E18 V0819

(081012) (13 SEP 73)

REFERENCE DATA

3007 = 2000.0000 30.00 FT. 10000 = 1070.4000 IN.
 1007 = 470.0000 IN. 10000 = .0000 IN.
 3007 = 930.0000 IN. 2000 = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBNA = 54.000
 BOOPLP = .000 RUDDER = .000
 ELWH-L = .000 ELWH-R = .000

PARAMETRIC DATA

RUN NO. 0/0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CA	CLM	L/D	KCP/L
1.001	-1.715	-.00000	.16310	.10000	.16150	.10700	.00000	.00000	.03330	-.31070	.00070
1.002	-.00000	.16310	.10000	.10000	.16150	.10700	.00000	.00000	.01200	.30100	.00010
1.003	.394	.00000	.16310	.10000	.16150	.10700	.00000	.00000	-.01200	1.03500	.00140
1.004	2.541	.17040	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.40000	.00000
1.005	4.574	.20190	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.80000	.00000
1.006	6.706	.30370	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	2.01000	.00000
1.007	8.809	.40000	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	2.04500	.00000
1.008	10.910	.50370	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	2.09000	.00000
1.009	12.980	.60310	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	2.06500	.00000
1.010	15.110	.70000	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.90000	.00000
1.011	17.220	.80360	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.60000	.00000
1.012	19.340	.90460	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.70000	.00000
1.013	21.400	1.00000	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.60100	.00000
1.014	23.530	1.07000	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.50500	.00000
1.015	25.400	1.06000	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.40000	.00000
1.016	27.630	1.11100	.16310	.10000	.16150	.10700	.00000	.00000	-.00000	1.29100	.00000
1.017		.00335	.16310	.10000	.16150	.10700	.00000	.00000	-.00000		.00000

RUN NO. 0/0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CA	CLM	L/D	KCP/L
1.001	-1.840	-.00000	.16200	.11530	.16110	.11350	.04650	.00000	.01740	-.31000	.77170
1.002	.200	.04090	.16200	.11530	.16110	.11350	.04650	.00000	.00000	.25000	.65370
1.003	2.330	.13410	.16200	.11530	.16110	.11350	.04650	.00000	-.01590	.81000	.70030
1.004	4.390	.22340	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.27000	.70300
1.005	6.540	.31000	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.64300	.70610
1.006	8.600	.40700	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.87000	.70640
1.007	10.720	.50390	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.99100	.70800
1.008	12.830	.59130	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	2.01100	.70730
1.009	14.870	.67000	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.90300	.70400
1.010	16.900	.75400	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.84000	.70200
1.011	18.900	.83310	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.70000	.69940
1.012	20.900	.91030	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.67500	.69800
1.013	22.970	.97000	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.50100	.69190
1.014	25.300	1.03000	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.50300	.68820
1.015	27.590	1.10500	.16200	.11530	.16110	.11350	.04650	.00000	-.00000	1.23557	.68037
1.016		.04395	.16200	.11530	.16110	.11350	.04650	.00000	-.00000		

GRADIENT

DATE 26 SEP 75

TABULATED SOURCE DATA AMPS 66-705 (0443)

082012) (13 SEP 75)

AMPS 66-705 0443 810 CS 57 MS P4 M07E18 V018

PARAMETRIC DATA

REFERENCE DATA

5007 = 2000.0000 88.47. 300P = 1076.4000 IN.
 1007 = 474.0000 IN. 100P = .0000 IN.
 9007 = 936.6000 IN. 200P = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 01 0 80VL = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CL	CD	CAF	CA	CAF	CAB	CH	CLM	L/D	KCP/L
2.003	-1.372	.00250	.14190	.10670	.10110	.03480	-.03370	-.00330	-.22760	.62740
2.006	.741	.03690	.14130	.10640	.10090	.03400	.04070	-.01370	.27520	.78040
2.000	2.810	.10970	.14500	.11090	.10490	.03390	.11670	-.02420	.75990	.73420
2.000	4.889	.18100	.13120	.11080	.10070	.03410	.19310	-.03270	1.19700	.72090
2.000	6.865	.16030	.13130	.13490	.09960	.03460	.27000	-.04180	1.51900	.71540
2.000	9.033	.16710	.13240	.13420	.09910	.03480	.34790	-.04930	1.72200	.71090
2.000	11.070	.16940	.17380	.12980	.09430	.03490	.42210	-.05490	1.87400	.70610
2.000	13.130	.20760	.20000	.12930	.09130	.03530	.50210	-.06090	1.91900	.70340
2.000	15.230	.27350	.24070	.12710	.08810	.03540	.66420	-.07090	1.89900	.70090
2.000	17.310	.31810	.28160	.12400	.08700	.03670	.75560	-.07810	1.82900	.69620
2.000	19.360	.36690	.33160	.12190	.08360	.03740	.83990	-.08020	1.75300	.69410
2.000	21.470	.42050	.38540	.11910	.08090	.03680	.92990	-.08590	1.67400	.69300
1.998	23.530	.48070	.44330	.11690	.07820	.03620	1.02100	-.08960	1.59000	.69140
2.000	25.650	.54590	.51070	.11460	.07500	.03600	1.11600	-.09600	1.51900	.69070
2.000	27.730	.61970	.58390	.11140	.07200	.03600	1.21600	-.10478	.23006	.01147
2.000	.03436	.00152	.00163	-.00069	-.00030	-.00002	.03666			

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 810 CS DT MS P4 M87E18 V.15

(RST013) (24 AUG 73)

REFERENCE DATA

REF = 2000.0000 54.77. 1000 = 1076.4800 IN.
 LREF = 474.0000 IN. 1000 = .0000 IN.
 BREF = 936.0000 IN. 2000 = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRON = .000 SFURNA = 54.900
 SCDFP = -14.800 RUDDER = -10.000
 ELWHL = .000 ELWHL-R = .000

RUN NO. 56/ 0 RVL = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.998	-2.001	-.11080	.09740	.05040	.08330	.04630	.04980	-.11360	.04880	-1.13100	.80880
.999	.001	-.01080	.09570	.04790	.09370	.04790	.04880	-.01680	.04710	-.17980	1.87400
.803	2.134	.07480	.09400	.04620	.08190	.04530	.04880	.07880	.04970	.78980	.43310
.801	4.304	.17480	.09080	.04390	.08320	.03940	.04480	.18180	.04930	1.77300	.98310
.800	6.337	.28240	.10810	.04270	.08320	.03090	.04480	.29880	.04800	2.81300	.80380
.802	8.365	.38530	.12390	.07970	.08630	.02180	.04380	.39880	.04400	3.11100	.80700
.800	10.480	.49140	.16180	.11710	.08990	.02460	.04450	.51280	.03870	2.04000	.83300
.800	12.410	.57330	.20210	.15630	.07420	.02750	.04800	.60330	.03430	2.83700	.83490
.999	14.570	.64880	.25400	.20720	.07900	.02970	.04770	.70930	.03210	2.88800	.84110
.997	16.840	.77170	.31980	.26840	.08140	.03220	.04910	.82970	.02070	2.44800	.84480
.998	18.880	.88440	.38840	.33220	.07980	.03590	.04820	.96080	.01460	2.31300	.84480
.801	20.800	.97470	.45180	.39950	.07820	.03830	.04890	1.07800	.01800	2.19700	.84400
.804	22.780	1.01800	.50560	.45830	.07330	.04190	.04840	1.13800	.03430	2.00800	.84980
.999	24.800	1.03700	.53920	.47920	.08700	.04090	.04840	1.14100	.08230	1.88800	.83480
.800	26.830	.90190	.54180	.47120	.07840	.03890	.07980	1.04900	.13490	1.88400	.81400
GRADIENT	.04447	.00013	.00036	.00036	-.00133	-.00110	-.00015	.04879	.00032	.48448	-.08335

RUN NO. 57/ 0 RVL = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.802	-1.812	-.09180	.11950	.08930	.11680	.08630	.04980	-.08630	.04790	-.78980	.83680
.802	.298	.01530	.11710	.07160	.11700	.07030	.04580	.01810	.04370	.13820	-.31080
.801	2.468	.11780	.12590	.07720	.12070	.07200	.04820	.12310	.04370	.83940	.53310
.802	4.543	.21870	.13300	.08620	.11740	.07030	.04820	.22800	.04450	1.80100	.98980
.803	6.541	.32020	.15870	.10710	.11850	.06920	.04890	.33590	.03800	2.05800	.88170
.803	8.682	.42090	.18640	.13770	.12080	.07160	.04810	.44420	.02350	2.25800	.83970
.801	10.740	.50820	.21920	.17160	.12080	.07220	.04820	.54010	.01870	2.31900	.84790
.800	12.860	.60420	.26820	.21430	.12490	.07180	.03830	.64830	.02300	2.28800	.83780
.808	15.000	.70700	.32260	.26930	.12890	.07320	.05580	.76830	-.00030	2.18000	.88010
.801	17.110	.80790	.38910	.32950	.13350	.07190	.08100	.88630	-.00450	2.08100	.88180
.999	19.120	.89920	.44670	.38230	.13740	.06930	.08630	.98740	.00370	1.94300	.88790
.804	21.230	.95100	.52210	.43250	.14240	.06770	.08630	1.07900	.01810	1.88100	.89480
.804	23.300	.99940	.58710	.49130	.14140	.05880	.08180	1.10500	.04910	1.88800	.84410
.807	25.280	.98750	.63150	.54130	.14920	.04970	.08880	1.18300	.07350	1.58400	.83680
.801	27.300	1.03800	.70020	.61380	.14350	.04810	.08700	1.24200	.08610	1.47900	.83870
GRADIENT	.04827	.00080	.00280	.00280	.00031	.00047	-.00036	.03042	-.00042	.37232	.00308

73 22 28 2472

TRANSLATED SOURCE DATA ALSO ON-FILE (2040)

100-443887-100

DATE: 04-20-04 04:43 010 C5 07 MS P4 MSRT10 V003

REFERENCE DATA

9007 = 2000,0000 20.0T. 100P = 1070,4000 IN.
 1007 = 476,0000 IN. 100P = .0000 IN.
 9007 = 930,0000 IN. 200P = 400,0000 IN.
 SCALE = .0150 SCALE

PACK TYPE DATA

Variable	Mean	Standard Deviation	Minimum	Maximum
NETA	2.00	0.5768	1.00	3.00
ATLSCN	0.000	0.0000	0.00	0.00
SCORLP	-14.300	0.5000	-15.00	-13.00
SCAL	0.000	0.5914	0.00	1.00

[illegible]

ALPHA	Q _L	Q _D	Q _D ²	CA	CA ²	CAB	CN	CL ₁	L ₀	ICP/L
-1.742	-0.0000	.17020	.11730	.17000	.11500	.00460	-.07900	.00000	-.00000	.00000
.372	.04000	.17070	.11510	.17000	.11400	.00460	.00000	.00000	.00000	.00000
2.359	.10000	.17750	.12300	.16970	.11340	.00000	.17900	.00000	.00000	.00000
4.750	.27000	.16000	.13000	.16000	.11000	.00000	.00000	.00000	.00000	.00000
6.030	.34100	.12500	.10000	.16070	.11340	.00000	.00000	.00000	.00000	.00000
8.772	.40000	.24200	.16010	.16770	.11000	.00000	.00000	.00000	.00000	.00000
11.000	.37000	.20300	.12300	.16070	.10400	.00000	.00000	.00000	.00000	.00000
13.000	.00000	.30000	.20000	.16070	.10400	.00000	.00000	.00000	.00000	.00000
15.000	.70000	.30100	.57000	.16000	.10100	.00000	.00000	.00000	.00000	.00000
17.370	.00000	.45000	.39000	.16000	.10000	.00000	.00000	.00000	.00000	.00000
19.360	.00000	.51000	.43100	.16070	.09700	.00000	.00000	.00000	.00000	.00000
21.360	.10000	.57000	.50500	.16000	.09710	.00000	.00000	.00000	.00000	.00000
23.360	.10000	.61000	.53900	.15310	.09450	.00000	.00000	.00000	.00000	.00000
25.310	.10000	.65000	.59000	.14070	.09000	.00000	.00000	.00000	.00000	.00000
27.000	.10000	.72000	.65000	.14070	.09000	.00000	.00000	.00000	.00000	.00000
29.000	.00000	.10000	.10000	.10000	.00000	.00000	.00000	.00000	.00000	.00000

ES, 0 BMA = 2.49 GRADIENT INTERVAL = -3.00/ 9.00

ALPHA	CL	CD	COF	CA	CAP	CAB	CI	QIN	L/S	MD/A
1.497	-0.0990	.17070	.12110	.10800	.11900	.04600	-.03300	.08000	-.30000	.01900
1.500	.00300	.16750	.11630	.11670	.11000	.04630	.10330	.01700	.19010	.52910
1.501	.02000	.16640	.12120	.16400	.11500	.04770	.13300	-.00200	.74910	.66740
1.503	.4400	.17010	.13130	.13100	.11300	.04600	.23000	-.01000	1.22100	.66010
1.505	.8407	.19330	.14000	.15000	.11000	.04600	.30000	-.00300	1.50000	.66000
1.504	.5970	.17000	.17210	.15700	.10900	.04670	.40130	-.04000	1.60300	.66400
1.504	.6436	.16000	.17210	.15040	.11000	.04770	.40130	-.04000	1.60300	.66400
1.504	.49130	.25300	.10700	.15040	.11000	.04770	.53040	-.09340	1.90000	.66700
1.520	.57000	.29340	.24300	.15700	.10900	.04600	.60670	-.00000	1.97000	.66630
1.520	.65040	.33070	.20050	.15900	.10900	.04900	.72000	-.07300	1.99000	.66600
1.501	.1701	.74410	.34000	.13200	.10100	.04900	.80900	-.07900	1.91400	.66400
1.501	.61810	.44300	.39400	.15100	.09900	.05110	.91000	-.00070	1.84700	.66370
1.502	.19.000	.50070	.45770	.15110	.09040	.05370	1.01700	-.00000	1.79000	.66130
1.500	.69330	.50070	.52700	.14990	.09410	.05400	1.11300	-.00000	1.66700	.66070
1.500	.90000	.66490	.59030	.14000	.08770	.05000	1.20000	-.00000	1.50000	.66000
1.499	.25.300	.1.02300	.66490	.12.900	.08110	.05040	1.29000	-.00100	1.30300	.66000
1.499	.1.00300	.78070	.66070	.1.700	-.00007	-.00004	.04610	-.00710	.24000	-.01100
1.499	.27.470	.62.010	.00150	-.00120	-.00007	-.00004	.04610	-.00710	.24000	-.01100

DATE 20 SEP 73

TABULATED SOURCE DATA ARES 00-706 (0443)

PAGE 20

ARES 00-706 0443 010 C3 07 M3 P4 W07E10 V0113

08070141 (81 AUG 73)

REFERENCE DATA

REF = 2400.00.0 56.7Y. W0P = 1076.4400 IN.
 LREF = 474.0000 IN. W0P = .0000 IN.
 RREF = 934.0000 IN. W0P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELVEN = .000
 ALLUM = .000 SP000 = 24.000
 R00P = -14.000 R0000 = -15.000
 ELW-L = .000 ELW-R = .000

RUN NO. 03/ 0 R0/L = 2.50 GRADIENT INTERVAL = -3.00/ 5.00

ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLM	L/D	R0P/L
.000	-1.047	.11400	.09750	.09340	.04750	.04400	-.11000	.04970	1.17000	.70000
.001	-.004	-.00310	.09400	.09470	.04600	.04400	-.07300	.04710	-.04430	1.30000
.002	2.127	.07000	.09440	.09170	.04610	.04300	.07140	.04930	.75000	.40000
.003	4.112	.10330	.09770	.08570	.04070	.04430	.10000	.04000	1.07000	.90000
.004	6.157	.10000	.09310	.08000	.03100	.04370	.27130	.04540	2.80000	.00100
.005	8.244	.07330	.07910	.06600	.02200	.04000	.30000	.04400	3.07400	.04910
.006	10.480	.04070	.07000	.07000	.02440	.04400	.50170	.03770	3.00000	.03310
.007	12.390	.00000	.07400	.07400	.02750	.04000	.57540	.03340	2.81000	.00000
.008	14.510	.00000	.07400	.07400	.03000	.04000	.70000	.02990	2.60000	.04400
.009	16.560	.00000	.07400	.07400	.03070	.04000	.82400	.01900	2.49100	.00170
.010	18.000	.00000	.07400	.07400	.03250	.04000	.94340	.01210	2.31000	.00540
.011	20.000	.00000	.07400	.07400	.03500	.04000	1.06000	.01340	2.10000	.00400
.012	22.700	.00000	.07400	.07400	.03800	.04000	1.17300	.00340	2.01100	.00100
.013	24.770	.00000	.07400	.07400	.04200	.04000	1.28000	.00310	1.89000	.00500
.014	26.790	.00000	.07400	.07400	.04600	.04000	1.38000	.00250	1.67000	.01470
.015	28.790	.00000	.07400	.07400	.05000	.04000	1.48000	.00240	.40000	-.00310
.016	30.790	.00000	.07400	.07400	.05400	.04000	1.58000	.00240	.40000	.40000

RUN NO. 02/ 0 R0/L = 2.50 GRADIENT INTERVAL = -3.00/ 5.00

ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLM	L/D	R0P/L
.000	-1.763	.11950	.07110	.11620	.04910	.04900	-.10010	.05190	-.00700	.04990
.001	.01120	.11670	.07030	.11640	.04790	.04790	.01170	.04360	.04400	-.07300
.002	2.341	.09600	.07750	.11700	.07500	.04360	.10140	.04030	.75330	.43700
.003	4.480	.07000	.07750	.11710	.07500	.04070	.21040	.04000	1.54000	.90400
.004	6.549	.05330	.07000	.11730	.07270	.04460	.32070	.04000	1.90400	.01840
.005	8.644	.03600	.06400	.11700	.07250	.04540	.41000	.03300	2.20000	.00100
.006	10.730	.01940	.05400	.11600	.07140	.04720	.50000	.02470	2.30100	.04300
.007	12.780	.00300	.04400	.11500	.07000	.04900	.59000	.02040	2.39000	.00000
.008	14.800	.00000	.03400	.11300	.07000	.05370	.68000	.02000	2.47000	.00000
.009	16.970	.00000	.02400	.11000	.07000	.05800	.77000	.02000	2.54000	.00000
.010	19.090	.00000	.01400	.10600	.07000	.06300	.86000	.02000	2.60000	.00000
.011	21.180	.00000	.00400	.10100	.07000	.06800	.95000	.02000	2.65000	.00000
.012	23.210	.00000	.00000	.09500	.07000	.07300	1.04000	.02000	2.70000	.00000
.013	25.210	.00000	.00000	.08800	.07000	.07800	1.13000	.02000	2.75000	.00000
.014	27.220	.00000	.00000	.08000	.07000	.08300	1.22000	.02000	2.80000	.00000
.015	29.240	.00000	.00000	.07100	.07000	.08800	1.31000	.02000	2.85000	.00000
.016	31.240	.00000	.00000	.06100	.07000	.09300	1.40000	.02000	2.90000	.00000
.017	33.240	.00000	.00000	.05100	.07000	.09800	1.49000	.02000	2.95000	.00000
.018	35.240	.00000	.00000	.04100	.07000	.10300	1.58000	.02000	3.00000	.00000
.019	37.240	.00000	.00000	.03100	.07000	.10800	1.67000	.02000	3.05000	.00000
.020	39.240	.00000	.00000	.02100	.07000	.11300	1.76000	.02000	3.10000	.00000
.021	41.240	.00000	.00000	.01100	.07000	.11800	1.85000	.02000	3.15000	.00000
.022	43.240	.00000	.00000	.00100	.07000	.12300	1.94000	.02000	3.20000	.00000
.023	45.240	.00000	.00000	.00000	.07000	.12800	2.03000	.02000	3.25000	.00000
.024	47.240	.00000	.00000	.00000	.07000	.13300	2.12000	.02000	3.30000	.00000
.025	49.240	.00000	.00000	.00000	.07000	.13800	2.21000	.02000	3.35000	.00000
.026	51.240	.00000	.00000	.00000	.07000	.14300	2.30000	.02000	3.40000	.00000
.027	53.240	.00000	.00000	.00000	.07000	.14800	2.39000	.02000	3.45000	.00000
.028	55.240	.00000	.00000	.00000	.07000	.15300	2.48000	.02000	3.50000	.00000
.029	57.240	.00000	.00000	.00000	.07000	.15800	2.57000	.02000	3.55000	.00000
.030	59.240	.00000	.00000	.00000	.07000	.16300	2.66000	.02000	3.60000	.00000

DATE 28 SEP 73

TABULATED SOURCE DATA AREA 66-706 (0A43)

AREA 66-706 0A43 B10 U3 57 NS P4 181218 1985

08170141 (14 AUG 75)

REFERENCE DATA

0A07 = 2000.0000 00.00. 100P = 1076.4000 IN.
 1A07 = 474.0000 IN. 110P = .0000 IN.
 2A07 = 936.0000 IN. 200P = 400.0000 IN.
 SCALE = .0150 SCALE

(ETA = .000
 AIRLON = .000
 000P = -14.000
 0100 = .000
 0100 = .000

PARAMETRIC DATA

RUN NO. 61/ 0 RUN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLH	L/R	WCP/L
1.002	-1.712	-0.0070	.1720	.1170	.1700	.1180	.0480	-.0700	.0010	-.0000	.0000
1.001	.308	.0440	.1710	.1160	.1710	.1160	.0440	.0470	.0000	.0000	.0000
1.003	2.404	.1950	.1710	.1160	.1700	.1160	.0440	.0470	.0000	.0000	.0000
1.004	4.577	.2040	.1710	.1160	.1700	.1160	.0440	.0470	.0000	.0000	.0000
1.005	6.697	.3000	.2120	.1370	.1680	.1130	.0440	.0470	.0000	.0000	.0000
1.006	8.775	.4010	.2410	.1640	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.007	10.900	.5090	.2610	.1840	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.008	12.900	.6000	.2800	.2030	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.009	15.000	.7030	.3000	.2230	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.010	17.200	.8770	.3120	.2430	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.011	19.200	.9270	.3120	.2630	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.012	21.400	1.0140	.3120	.2830	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.013	23.400	1.0400	.3120	.3030	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.014	25.500	1.0500	.3120	.3230	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.015	27.500	1.0600	.3120	.3430	.1690	.1130	.0440	.0470	.0000	.0000	.0000
1.016		.05300	.00000	.00000	-.00015	.00000	-.00000	.00000	-.00000	.00000	-.00000

GRADIENT

RUN NO. 62/ 0 RUN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLH	L/R	WCP/L
1.002	-1.910	-0.0070	.1720	.1220	.1700	.1200	.0480	-.0700	.0000	-.0000	.0000
1.001	.225	.0010	.1690	.1200	.1690	.1200	.0480	.0470	.0000	.0000	.0000
1.003	2.275	.1190	.1710	.1220	.1680	.1190	.0470	.0470	.0000	.0000	.0000
1.004	4.401	.2070	.1800	.1340	.1630	.1170	.0460	.0470	.0000	.0000	.0000
1.005	6.477	.2940	.1490	.1470	.1600	.1150	.0460	.0470	.0000	.0000	.0000
1.006	8.659	.3900	.2030	.1730	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.007	10.600	.4790	.2510	.2040	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.008	12.700	.5670	.2910	.2240	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.009	14.800	.6490	.3360	.2440	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.010	16.900	.7320	.3810	.2640	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.011	19.000	.8090	.4390	.2840	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.012	21.210	.8860	.5030	.3040	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.013	23.200	.9320	.5700	.3240	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.014	25.300	1.0120	.6410	.3440	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.015	27.470	1.0700	.7150	.3640	.1500	.1130	.0460	.0470	.0000	.0000	.0000
1.016		.04300	.00122	.00175	-.00101	-.00000	-.00000	.04651	-.00710	.24451	-.00000

GRADIENT

DATE 26 SEP 73

TABULATED SOURCE DATA MEZ 06-706 (0443)

(087014) (24 AUG 73)

REFERENCE DATA

SEEP = 2000.0000 IN. FT. WWP = 1076.4000 IN.
LWP = 474.0000 IN. WWP = .0000 IN.
BWP = 906.0000 IN. WWP = 400.0000 IN.
SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
ATLON = .000 SPONON = 54.900
BOPUP = -14.000 RUDON = -15.000
ELW-L = .000 ELW-R = .000

PARAMETRIC DATA

RUN NO. 96/ 0 RWL = 2.44 GRADIENT INTERVAL = -8.00/ 5.00

WICH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CH	CLH	L/D	ICP/L
2.003	-1.919	-.04370	.14980	.11360	.14910	.11250	.03460	-.04770	.00990	-.29300	.70430
2.003	.647	.08640	.14470	.10960	.14440	.10630	.03540	.00810	-.00330	.16890	.70160
2.003	2.734	.09790	.14730	.11120	.14230	.10630	.03560	.10470	-.01390	.06380	.70740
2.003	4.866	.10960	.15020	.12050	.14120	.10540	.03530	.16820	-.02290	1.06600	.70490
2.003	6.911	.24110	.16970	.13310	.13830	.10680	.03540	.25970	-.03070	1.42900	.70220
2.003	8.956	.30860	.18300	.14690	.13300	.09690	.03590	.33190	-.03470	1.67700	.69930
2.003	11.070	.37560	.20970	.17370	.13370	.09700	.03630	.40990	-.04290	1.79100	.69750
2.003	13.120	.44270	.24000	.20460	.13300	.09710	.03600	.49580	-.04720	1.84400	.69470
2.003	15.230	.50960	.27140	.23720	.12900	.09660	.03580	.56300	-.05110	1.87800	.69240
2.003	17.350	.56110	.31320	.27990	.12370	.09670	.03480	.64600	-.05320	1.63500	.68940
2.003	19.490	.64790	.35910	.32460	.12420	.09670	.03530	.72990	-.05720	1.90300	.68600
2.003	21.450	.71620	.41220	.37630	.12160	.09530	.03620	.81730	-.05950	1.73600	.68400
2.003	23.530	.78260	.47000	.43990	.11620	.09100	.03700	.90610	-.06290	1.66700	.68350
2.003	25.790	.82230	.53660	.50310	.11350	.07970	.03720	1.00100	-.06560	1.59700	.68340
2.003	27.740	.81440	.60540	.57080	.11010	.07120	.03650	1.09100	-.07150	1.51000	.68340
2.003	29.740	.03346	.00109	.00106	-.00107	-.00110	.00006	.03607	-.00457	.21759	.00034

GRADIENT

DATE 20 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0443)

PAGE 33

ARES 66-706 0443 BIC C5 D7 M3 P4 W87E18 V8815

(24 AUG 73)

REFERENCE DATA

REF = 2000.0000 00.00 FT. WARP = 1076.4000 IN.
 LREF = 474.0000 IN. WARP = .0000 IN.
 BREF = 936.0000 IN. WARP = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELEVON = .000
 ALLCON = .000 SPOON = 24.900
 SCPLP = -14.200 RUDDER = -10.000
 ELVN-L = .000 ELVN-R = .000

PARAMETRIC DATA

CLIN H. 66/ 0 RV/L = 2.53 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	ON	CLM	L/D	KCP/L
.998	-2.119	-.09750	.07680	.03530	.06000	.03190	.03760	-.00000	.02160	-1.34000	.73716
.999	-.008	-.00400	.07110	.03220	.07110	.03220	.03600	-.00400	.02430	-.08860	2.04000
.999	2.222	.06250	.07130	.03520	.06760	.03190	.03600	.09560	.04000	1.30400	.90040
.999	4.208	.18700	.07690	.03660	.06000	.03430	.03760	.16210	.02480	2.43100	.61800
.999	8.165	.59000	.06600	.04870	.05460	.01710	.03760	.29440	.02350	3.33400	.63100
.999	9.352	.99000	.10400	.06750	.04900	.00790	.03640	.40940	.02190	3.83300	.64180
.999	10.440	.90000	.14270	.10540	.04900	.01220	.03760	.51080	.01960	3.30600	.64900
.999	12.590	.99000	.18940	.15000	.05910	.01460	.03660	.62360	.01330	3.13500	.65900
.999	14.570	.99140	.23690	.19750	.05900	.01710	.04480	.71940	.00900	2.85700	.65900
.999	16.720	.99000	.30260	.25000	.06000	.01660	.04680	.84480	-.00390	2.61000	.66160
.999	18.660	.99330	.36570	.32120	.06000	.01330	.04610	.96340	-.00760	2.44200	.66260
.999	20.780	.99000	.43300	.36750	.05750	.00670	.04610	1.07000	-.00390	2.26400	.66260
.999	22.770	1.03000	.49330	.44470	.05530	.00260	.04610	1.14300	.01220	2.09200	.65600
.999	24.900	.99730	.52360	.46360	.05500	-.01090	.06490	1.12900	.07030	1.90300	.63770
.999	26.840	.90000	.52900	.45990	.06270	-.01480	.07480	1.04600	.11350	1.71300	.62180
.999	.04460	.00060	.00060	.00056	-.00101	-.00107	-.00009	.04602	.00049	.59614	-.12746

RUN NO. 67/ 0 RV/L = 2.48 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	ON	CLM	L/D	KCP/L
.998	-1.796	-.08620	.09910	.05590	.09660	.05370	.04290	-.07220	.01760	-.69760	.74680
.999	.227	.03260	.09840	.05780	.09820	.05780	.03670	.03310	.01290	.34000	.32080
.999	2.422	.12160	.09750	.05210	.09220	.05690	.03560	.12560	.02300	1.24600	.59470
.999	4.592	.24930	.11680	.07630	.09650	.05500	.04060	.25790	.00990	2.13400	.64630
.999	6.706	.33590	.13520	.09660	.09510	.05650	.03670	.34900	.01330	2.46200	.64680
.999	8.733	.42970	.16490	.12320	.09790	.05770	.04030	.44900	.00470	2.60100	.65620
.999	10.800	.52390	.20320	.16420	.10040	.06070	.03960	.55290	-.00400	2.57600	.66260
.999	12.790	.60130	.24260	.19780	.10650	.05750	.04570	.64010	-.01120	2.47600	.66480
.999	14.990	.71000	.30240	.25570	.10650	.05930	.05490	.76410	-.01920	2.34800	.66900
.999	17.090	.80760	.36730	.31470	.11440	.05930	.06300	.86000	-.02110	2.19900	.66600
.999	19.080	.86570	.43310	.37360	.11900	.05690	.06300	.97860	-.01690	2.04500	.66600
.999	21.130	.93940	.49410	.43310	.12220	.05010	.06300	1.05400	-.00150	1.90100	.66090
.999	23.320	.94320	.40600	.46660	.12220	.04160	.06300	1.06200	.03660	1.74900	.64720
.999	25.220	.97270	.60220	.51560	.13030	.03470	.09320	1.13700	.06590	1.61900	.63930
.999	27.370	1.00200	.65930	.57250	.12900	.02730	.09660	1.19300	.08190	1.52000	.63560
.999	.04895	.00257	.00309	.00306	-.00124	.00023	-.00042	.05076	-.00063	.44026	-.01023

DATE 26 SEP 73

TABULATED SOURCE DATA AMES 86-T06 (0443)

AMES 86-T06 0443 BID C5 D7 NS F4 W9T16 V3R3

(081015) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATTUON = .000 SPODER = 84.900
 SCPLP = -14.800 RUDDER = -10.000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

WOP = 2680.0000 82.77. WOP = 1076.4600 IN.
 LWP = 474.8000 IN. WOP = .0000 IN.
 SLP = 936.8000 IN. WOP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 66/ 0 RWL = 2.54 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.199	-1.734	-.08403	.14660	.09570	.14660	.08590	.08660	-.09918	.08030	-.36760	.79300
1.201	.332	.05460	.14370	.09570	.14660	.08530	.08670	.09960	.00160	.36680	.64970
1.203	2.961	.17600	.14650	.10470	.14650	.09660	.09170	.18890	-.02190	1.12400	.70270
1.205	4.707	.26900	.17240	.12110	.14610	.09660	.09130	.30260	-.03940	1.67800	.70660
1.208	6.767	.36960	.19590	.14320	.14670	.09570	.09130	.40930	-.04990	1.96300	.70360
1.214	8.846	.46210	.22530	.17170	.14650	.09430	.09110	.51110	-.05720	2.14000	.70000
1.214	10.960	.56420	.26630	.20950	.15020	.09250	.09110	.62430	-.06560	2.19300	.69770
1.212	12.970	.66200	.31360	.25290	.15180	.09030	.09030	.73490	-.07340	2.16000	.69970
1.212	15.170	.75990	.37670	.31360	.15430	.08910	.08910	.87080	-.08660	2.12300	.69600
1.198	17.370	.86680	.44430	.37660	.15640	.08770	.08770	.96830	-.10160	2.01900	.69670
1.200	19.330	.97130	.53670	.43960	.15660	.08570	.08660	1.06400	-.10900	1.91700	.69480
1.200	21.360	1.08000	.59900	.49460	.14670	.07660	.08000	1.16100	-.09910	1.63600	.66930
1.196	23.540	1.05100	.60790	.54550	.13740	.06940	.06710	1.20700	-.08210	1.75000	.67840
1.200	25.540	1.04600	.64940	.56320	.13410	.06180	.07120	1.22400	-.08340	1.61400	.66360
1.200	27.620	1.06800	.71070	.63590	.12540	.06350	.06240	1.29300	-.00750	1.50000	.66200
GRADIENT		.03346	.01366	.00397	.00017	.00044	-.00023	.05623	-.00943	.31947	-.00789

RUN NO. 65/ 0 RWL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.499	-1.860	-.03310	.15120	.10160	.14930	.09970	.04690	-.05610	.00160	-.35100	.67000
1.501	.153	.03600	.14680	.09930	.14670	.09940	.04660	.03640	-.01330	.25960	.76390
1.503	2.349	.13260	.15250	.10430	.14690	.09670	.04770	.13670	-.02790	.66950	.73190
1.501	4.445	.22550	.16220	.11310	.14440	.09720	.04660	.25540	-.04060	1.37700	.72170
1.501	6.576	.31440	.17680	.13250	.14140	.09500	.04600	.33260	-.05210	1.76000	.71600
1.503	8.549	.39980	.20240	.15640	.14060	.09430	.04600	.42490	-.06260	1.67500	.71270
1.503	10.760	.46690	.23690	.19190	.14150	.09360	.04740	.53470	-.07710	2.06900	.71150
1.503	12.800	.56900	.27660	.23110	.14230	.09340	.04630	.63220	-.08750	2.09600	.70950
1.503	14.680	.66180	.32010	.27190	.14020	.09240	.04920	.72160	-.09300	2.06900	.70800
1.503	17.110	.74950	.37480	.32600	.13740	.09660	.04960	.82690	-.10990	2.00200	.70380
1.503	19.130	.82930	.43140	.36200	.13590	.09160	.05160	.92480	-.10630	1.92200	.69870
1.501	21.130	.89660	.49270	.44140	.13570	.09070	.05420	1.01600	-.10990	1.82400	.69490
1.500	23.350	.97290	.56540	.51420	.13350	.07770	.05490	1.11700	-.10870	1.72100	.69190
1.500	25.330	1.03100	.63410	.56150	.13160	.07370	.05770	1.20300	-.10620	1.62600	.68760
1.500	27.490	1.09300	.71200	.65940	.12710	.06760	.05690	1.29600	-.10010	1.53500	.68070
GRADIENT		.04342	.00173	.00213	-.00078	-.00039	-.00034	.04607	-.00663	.27232	.00473

DATE 28 SEP 75

TABULATED SOURCE DATA AXES 66-706 (0443)

PAGE 37

AXES 66-706 0443 810 C5 D7 H5 P4 007E16 V5R5

(RST018) (24 AUG 75)

REFERENCE DATA

2007 = 288C.0000 50.FT. 200P = 1078.4800 IN.
 1007 = 474.8000 IN. 100P = .0000 IN.
 8007 = 934.6000 IN. 800P = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
 AIRON = .000 SPORON = 24.900
 BOOP = -14.800 RUDDER = -10.000
 ELWA-L = .000 ELWA-R = .000

PARAMETRIC DATA

RUN NO. 64/ 0 RW/L = 2.44 GRADIENT INTERVAL = -9.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/O	ICP/L
1.998	-1.321	-.03420	.13190	.09640	.13090	.08590	.03440	-.03770	-.01580	-.28030	.31080
1.998	.709	.03980	.12840	.08270	.12790	.08250	.03910	.04130	-.02810	.30970	.88530
2.000	2.787	.10970	.13230	.08630	.12980	.08060	.03540	.11590	-.03550	.88980	.78950
2.000	4.761	.17630	.14300	.10730	.12780	.08210	.03330	.18780	-.04230	1.23300	.74080
1.998	6.979	.23230	.15610	.12010	.12420	.08800	.03580	.28960	-.05070	1.81800	.78630
1.998	9.035	.31800	.17360	.13710	.12150	.08480	.03680	.34130	-.05480	1.83800	.71740
1.998	11.090	.38480	.19000	.16140	.12080	.08330	.03680	.41560	-.06400	1.94400	.71130
1.998	13.140	.45330	.22750	.19180	.11640	.08140	.03980	.37680	-.06650	1.97500	.70640
1.998	15.370	.52490	.26600	.23130	.11740	.07980	.03530	.35320	-.07030	1.95000	.69850
1.999	17.290	.59000	.30280	.26870	.11400	.07810	.03530	.74290	-.07340	1.88100	.68350
2.002	19.430	.66330	.35270	.31690	.11190	.07610	.03680	.62930	-.07520	1.79300	.68230
1.999	21.530	.72990	.40710	.37290	.10980	.07410	.03750	.91830	-.07800	1.71300	.68040
1.998	23.570	.79660	.46510	.43080	.10780	.07210	.03750	1.03400	-.08040	1.62900	.68080
1.998	25.630	.86060	.52840	.49430	.10410	.06930	.03750	1.10200	-.08300	1.53300	.68780
1.998	27.780	.92710	.60480	.56970	.10290	.06320	.03930	1.10200	-.08500	1.43300	.68974
		.03355	.70180	.00170	-.00045	-.00057	.00015	.03590	-.00426	.23943	

GRADIENT

DATE 20 SEP 75

TABULATED SOURCE DATA AXES 00-706 (0043)

(007710) (04 AUG 75)

AXES 00-706 0043 810 C5 D7 M5 P4 WRITE1E VMS

PARAMETRIC DATA

BETA = .000 ELEVCH = .000
 ALLCON = .000 SPOROK = .000
 BOOPLP = -14.800 RUDDER = -10.000
 ELVH-L = .000 LVM-R = .000

REFERENCE DATA

WAP = 2000.0000 00.00 1076.4000 IN.
 WAP = 474.0000 IN. 1000 IN.
 WAP = 604.0000 IN. 400.0000 IN.
 SCALE = .0100 SCALE

RUN NO. 72/ 0 RVL = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

WAP	ALPHA	CL	CD	CDP	CA	CAP	CAB	CH	CLM	L/D	MCP/L
.000	-2.072	-.00000	.00010	.00070	.00170	.00030	.00000	-.00000	.01040	-1.43700	.72870
.000	-.074	-.00000	.00000	.00070	.00000	.00000	.00000	-.00000	.00000	-.10750	1.70500
.000	2.164	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	1.41000	.57320
.000	4.196	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.76400	.81800
.000	6.317	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	3.76000	.63720
.000	8.403	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	4.17700	.64420
.000	10.440	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	3.71800	.65200
.000	12.480	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	3.31400	.65410
.000	14.520	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.95000	.65780
.000	16.560	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.71700	.66280
.000	18.600	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.50500	.66420
.000	20.770	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.31100	.66240
.000	22.880	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	2.12100	.65600
.000	24.760	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	1.94400	.64020
.000	26.800	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	1.73400	.62260
.000	28.900	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.00000	.67393	-.07310

GRADIENT

RUN NO. 72/ 0 RVL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

WAP	ALPHA	CL	CD	CDP	CA	CAP	CAB	CH	CLM	L/D	MCP/L
.000	-1.087	-.07450	.00070	.00110	.00430	.00070	.00000	-.07720	.01340	-.05800	.72200
.000	2.343	.00120	.00000	.00070	.00000	.00000	.00000	.00000	.01110	.37600	.53410
.000	4.347	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.01250	1.37600	.62000
.000	6.356	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.01060	2.24700	.64410
.000	8.404	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.01070	2.59400	.64660
.000	10.450	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00270	2.76400	.66220
.000	12.490	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00990	2.70500	.66640
.000	14.530	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00290	2.55700	.67240
.000	16.570	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00830	2.40600	.67220
.000	18.610	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.02750	2.24500	.67110
.000	20.750	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00290	2.06000	.66640
.000	22.890	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.00640	1.93600	.66210
.000	24.770	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.03960	1.77600	.64800
.000	26.810	.00000	.00000	.00070	.00000	.00000	.00000	.00000	-.06480	1.63100	.63930
.000	28.900	.00000	.00000	.00070	.00000	.00000	.00000	.00000	.05750	1.53400	.64340
.000	27.370	1.04400	.60070	.90000	.12440	.02270	.10060	1.24000	-.00000	.48469	-.07644

GRADIENT

DATE 26 SEP 75

TABULATED SOURCE DATA ARES 66-T06 (0443)

ARES 66-T06 0443 810 C5 D7 M3 P4 MPTC10 VRS5

PAGE

0807016) (24 AUG 75)

REFERENCE DATA

REF = 8990.0000 50.0 FT. 300P = 1076.4000 IN.
 LREF = 474.0000 IN. 700P = .0000 IN.
 BREF = 936.0000 IN. 300P = 400.0000 IN.
 SCALE = .0150 SCALE

RUN W. 71/0 RVL = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPDRK = .000
 BOOPLP = -14.200 RUDDER = -10.000
 ELVN-L = .000 ELVN-R = .000

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.000	-1.710	-.00370	.14150	.06950	.13990	.08760	.05170	-.05790	.01420	-.37920	.74790
1.005	-.348	.00790	.14210	.09010	.14170	.06970	.03160	.05870	-.00470	.40730	.66990
1.010	2.962	.17920	.13000	.09870	.14210	.09050	.05120	.18470	-.02760	1.16800	.71330
1.015	4.810	.20320	.16490	.11440	.14140	.09070	.03060	.29750	-.04290	1.73000	.71160
1.020	6.696	.30570	.16790	.13620	.14200	.06990	.05190	.40420	-.03440	2.04900	.70820
1.025	8.071	.46270	.21960	.16550	.14260	.06970	.05370	.51190	-.07090	2.20100	.70290
1.030	11.000	.90590	.26030	.20460	.14590	.06700	.05660	.62480	-.09000	2.24900	.70050
1.035	15.010	.66520	.30620	.24920	.14610	.06550	.05990	.73690	-.09000	2.22300	.69680
1.040	19.100	.79630	.36900	.30690	.14680	.06460	.06310	.86490	-.09610	2.15800	.69970
1.045	17.250	.99150	.43900	.37010	.15150	.06340	.06660	.96040	-.10460	2.04900	.69610
1.050	19.350	.97260	.50240	.43620	.15210	.06200	.06860	1.06400	-.10820	1.93600	.69570
1.055	21.470	1.03270	.56050	.49550	.14400	.07410	.06950	1.16500	-.09680	1.84100	.68960
1.060	23.460	1.04200	.59640	.53590	.13250	.06420	.06710	1.19300	-.08080	1.74700	.67620
1.065	25.600	1.04600	.64250	.57920	.12700	.05610	.06970	1.22400	-.02530	1.62800	.66740
1.070	27.650	1.09300	.70830	.64970	.12000	.05360	.06900	1.29700	-.01140	1.54400	.66310
1.075		.09570	.00366	.00393	.00023	.00045	-.00017	.05631	-.00916	.33571	-.00392

RUN NO. 70/0 RVL = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.099	-2.017	-.05410	.14620	.06850	.14420	.09450	.04890	-.05920	-.00170	-.37020	.65000
1.099	.042	.03560	.14350	.09400	.14350	.09400	.04360	.03590	-.01620	.24920	.64120
1.003	2.552	.13750	.14770	.09560	.14160	.09350	.04750	.14330	-.03300	.92960	.74250
1.005	4.491	.22790	.15620	.11170	.13990	.09330	.04620	.23960	-.04570	1.44000	.72620
1.005	6.606	.31710	.17460	.12690	.13700	.09290	.04560	.33510	-.05690	1.81600	.72070
1.009	8.675	.40870	.19970	.15550	.13570	.08910	.04620	.43410	-.06650	2.04700	.71640
1.000	10.700	.50860	.23490	.18670	.13670	.08900	.04750	.53760	-.08160	2.14000	.71450
1.000	12.660	.66440	.27470	.22660	.13760	.08950	.04850	.63340	-.09190	2.13700	.71190
1.000	14.660	.87170	.31720	.26900	.13620	.08900	.04960	.72350	-.09760	2.09500	.70880
1.000	17.060	.95290	.37050	.32160	.13340	.08950	.05010	.82510	-.10460	2.03100	.70510
1.000	19.110	.62910	.42730	.37770	.13250	.07990	.05170	.92330	-.10960	1.94000	.70250
1.002	21.210	.90480	.49260	.44100	.13200	.07650	.05450	1.02200	-.11430	1.83600	.70000
1.000	23.500	.97170	.56070	.50960	.13000	.07410	.05500	1.11400	-.11490	1.73500	.69690
1.002	25.400	1.03900	.63390	.56120	.12660	.07020	.05600	1.20700	-.10950	1.63300	.69240
1.002	27.490	1.09300	.70610	.65500	.12370	.06360	.05940	1.29700	-.10370	1.54400	.68660
1.000		.04336	.00184	.00236	-.00067	-.00017	-.00044	.04994	-.00671	.27971	.00575

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 00-706 (0443)

AXES 00-706 0443 810 C5 D7 M3 P4 M07E10 V083

(RST010) (24 AUG 73)

REFERENCE DATA

SRCP = 2000.0000 54. FT. XMRP = 1076.4000 1/4.
 LMRP = 474.0000 IN. YMRP = .0000 1/4.
 BRCP = 934.0000 IN. ZMRP = 400.0000 1/4.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPORON = .000
 BOOPL = -14.270 RUDDER = -10.000
 ELWA-L = .000 ELWA-R = .000

RUN NO. 00/ D 00/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CLF	CA	CAF	CAB	ON	CLM	L/O	KCP/L
1.996	-1.991	-.03820	.12740	.09230	.12630	.09120	.03440	-.03670	-.02010	-.27630	.47400
2.001	.600	.04270	.12500	.06910	.12430	.06660	.03930	.04410	-.02090	.1140	.69420
2.002	2.035	.11430	.12060	.09270	.12260	.06090	.03540	.18070	-.03090	.89000	.77310
2.004	4.936	.14610	.13760	.10240	.12120	.06370	.03900	.19730	-.04720	1.33100	.74350
2.004	6.940	.23080	.13760	.11620	.12320	.06460	.03980	.26730	-.05310	1.63400	.73100
1.998	9.046	.32160	.13170	.13530	.11690	.06210	.03630	.34460	-.05620	1.87500	.72030
1.997	11.160	.39330	.19630	.19680	.11630	.07990	.03670	.42410	-.06400	2.00400	.71400
2.000	13.160	.45370	.22690	.19090	.11780	.08060	.03990	.46770	-.06710	1.99900	.70680
2.005	15.310	.52260	.26230	.22730	.11900	.07970	.03990	.51350	-.06930	1.99300	.70330
2.005	17.410	.59310	.30290	.26930	.11090	.07330	.03540	.63650	-.07270	1.96500	.69930
2.005	19.420	.66230	.35040	.31640	.11020	.07410	.03590	.74120	-.07510	1.89000	.69620
2.006	21.538	.73210	.40270	.36860	.10560	.06890	.03660	.82660	-.07720	1.81000	.69330
2.003	23.630	.79770	.46470	.43030	.10600	.06650	.03720	.91710	-.07980	1.71700	.69100
2.003	25.660	.86140	.52610	.49430	.10290	.06550	.03720	1.00900	-.08160	1.63100	.68910
2.003	27.610	.92690	.60320	.56830	.10120	.06190	.03690	1.10100	-.08450	1.53800	.68740
GRADIENT		.00372	.00156	.00134	-.00076	-.00064	.00009	.03596	-.00416	.24902	.03236

DATE 28 SEP 75

TABULATED SOURCE DATA AXES 66-706 (0443)

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(080117) (24 AUG 75)

AXES 66-706 0443 B10 C5 D7 NS P4 M07E18 V083

REFERENCE DATA

SREF = 2990.0000 50.FT. 1000P = 1076.4800 IN.
 LREF = 474.8000 IN. Y-REF = .0000 IN.
 DREF = 936.6000 IN. Z-REF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPOBRK = 34.900
 BOOPLP = -14.800 RUDDER = -20.000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 77/0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CH	CLM	L/D	KCP/L
.800	-2.110	.11010	.08990	.05360	.08480	.04860	.04470	-.118170	.04840	-1.19400	.79600
.801	-.007	.08910	.08910	.05060	.08310	.04680	.04480	-.02370	.04760	-.84930	1.36000
.801	2.034	.08780	.08480	.05030	.08230	.04600	.04400	.07100	.05080	.71360	.40840
.802	4.102	.18230	.09790	.05410	.08600	.04810	.04380	.16990	.04680	1.69900	.89870
.801	6.136	.26810	.10640	.08240	.07750	.03300	.04340	.27800	.04690	2.50000	.59980
.801	8.225	.37080	.12140	.07740	.06720	.02260	.04340	.36370	.04600	3.08700	.61720
.801	10.290	.47500	.13630	.11360	.06930	.02610	.04300	.49330	.03900	3.02700	.63170
.801	12.310	.56030	.15780	.15310	.07380	.03020	.04290	.69310	.03540	2.63300	.63690
.800	14.410	.62500	.24780	.20180	.07770	.03460	.04190	.81480	.03110	2.43300	.64400
.800	16.480	.75770	.30930	.26000	.08170	.03720	.04090	.94680	.02100	2.30700	.65400
.801	18.990	.87140	.37740	.32740	.08700	.04000	.03160	1.03500	.01690	2.17500	.65430
.800	20.680	.96110	.44220	.39180	.07460	.02070	.03470	1.03900	.03290	2.01900	.64980
.801	22.700	1.01400	.50210	.45070	.07180	.01810	.06370	1.12700	.07590	1.86700	.63990
.999	24.690	.99330	.53320	.47470	.06960	.00420	.07450	1.56000	.13320	1.67100	.61410
.998	26.720	.89340	.53480	.46580	.07370	-.00130	.07450	1.56000	.00046	.46046	-.08119
GRADIENT		.04510	-.00016	.00005	-.00137	-.00117	-.00123	.14674			

RUN NO. 76/0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CH	CLM	L/D	KCP/L
.800	-1.826	.08680	.12070	.07410	.11750	.07090	.04810	-.110240	.05410	-.81710	.84660
.801	.209	.00680	.11900	.07390	.11690	.07390	.04490	.00750	.04800	.05750	-1.60400
.899	2.300	.09370	.11970	.07780	.11560	.07390	.04260	.09640	.05170	.76270	.47220
.902	4.441	.20670	.13370	.09080	.11910	.07410	.04550	.21690	.04560	1.53700	.50550
.901	6.484	.29650	.15410	.10790	.11940	.07290	.04590	.31400	.04370	1.93700	.61020
.899	8.508	.36950	.17780	.13330	.11750	.07260	.04320	.41180	.03770	2.19300	.62720
.899	10.670	.48920	.21540	.16890	.12110	.07360	.04770	.52060	.02310	2.27100	.64270
.903	12.770	.59410	.26330	.21640	.12590	.07740	.04790	.63780	.00840	2.25600	.65530
.899	14.850	.68240	.31260	.26260	.12740	.07550	.05260	.73980	.00770	2.19200	.65820
.903	16.960	.79200	.36150	.32540	.13360	.07520	.05890	.86690	.00000	2.07600	.66000
.902	19.000	.85110	.43860	.37940	.13760	.07500	.06270	.94760	.00950	1.94100	.65840
.899	21.090	.91240	.49860	.43590	.13710	.06870	.06840	1.03100	.02610	1.82900	.65090
.903	23.140	.95310	.56290	.48830	.14220	.06110	.06060	1.10000	.04420	1.69700	.64960
.901	25.190	.94310	.60550	.52110	.14650	.05330	.08220	1.11100	.09450	1.55600	.62980
.903	27.270	.99270	.67180	.58660	.14210	.04680	.09410	1.19000	.09690	1.47800	.63030
GRADIENT		.04828	.00221	.07260	.00706	.00046	-.00019	.05043	-.00094	.37246	.56503

DATE 26 SEP 75

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TABULATED SOURCE DATA AYES 66-706 (0443)

AYES 66-706 0443 810 C5 D7 H3 F4 M87E16 V3K5

(24 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

WCF = 2400.0000 84.00 FT. 300P = 1076.4000 IN.
 WCF = 474.0000 IN. 300P = .0000 IN.
 WCF = 936.0000 IN. 300P = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
 AIRLON = .000 SPDRK = 54.900
 BOOFLP = -14.200 RUDDER = -20.000
 ELVHL = .000 ELVHLR = .000

RUN NO. 75/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.199	-1.762	-0.07230	.17410	.11940	.17180	.11700	.05490	-.07770	.03130	-.41880	.09880
1.199	.304	.04230	.17220	.11900	.17180	.11700	.05380	.04380	.02930	.24560	.41190
1.202	2.412	.15290	.17790	.12780	.17130	.11710	.05390	.18020	.00790	.89940	.64310
1.204	4.517	.28180	.19130	.13360	.17010	.11840	.05180	.27800	-.01010	1.34900	.87310
1.199	6.699	.36990	.21370	.17970	.16970	.11540	.05430	.35920	-.02190	1.71700	.66010
1.200	8.791	.46430	.24240	.18750	.16990	.11300	.05550	.49390	-.03020	1.91500	.66180
1.202	10.640	.56190	.28070	.22290	.16990	.11100	.05640	.60440	-.04030	2.00100	.64390
1.200	12.950	.66930	.32620	.26700	.16960	.10710	.06200	.72360	-.05200	2.03900	.66540
1.199	15.040	.78100	.36710	.32320	.17120	.10490	.06510	.84170	-.07070	2.01700	.66980
1.201	17.140	.87170	.44810	.36320	.17130	.10330	.06700	.96510	-.07970	1.94500	.66950
1.201	19.240	.94260	.51290	.44690	.17020	.10210	.06990	1.06900	-.06450	1.89000	.66820
1.200	21.310	1.00900	.56790	.50190	.16290	.09210	.06990	1.14500	-.07220	1.77400	.66250
1.200	23.360	1.03000	.61310	.55110	.15410	.08660	.06660	1.16900	-.03690	1.69000	.67170
1.200	25.430	1.02000	.65100	.58680	.15000	.08090	.06790	1.20100	.00630	1.56700	.65810
1.200	27.520	1.04500	.68020	.62020	.14270	.07990	.06310	1.27600	.01620	1.48800	.65490
GRADIENT		.03275	.00315	.00012	-.00026	.00012	-.00035	.05606	-.00981	.28367	-.02087

RUN NO. 74/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.900	-1.939	-.00350	.17400	.12360	.17180	.12130	.04950	-.06940	.03130	-.36310	.62640
1.901	.129	.02750	.17180	.12190	.17170	.12180	.04910	.02780	.01450	.15790	.47350
1.901	2.224	.11540	.17580	.12460	.16900	.12020	.04930	.12210	-.00040	.74470	.66100
1.903	4.357	.20700	.18100	.13360	.16480	.11740	.04700	.22010	-.01460	1.14400	.60360
1.900	6.351	.29330	.19620	.14900	.16260	.11510	.04720	.31320	-.02560	1.42500	.60950
1.900	8.520	.36740	.22000	.17340	.16020	.11310	.04670	.41570	-.03660	1.76000	.69320
1.499	10.610	.47950	.25360	.20610	.16120	.11260	.04790	.51710	-.05260	1.68700	.69630
1.900	12.700	.54530	.29230	.24390	.16090	.11120	.04890	.61570	-.06410	1.93400	.69720
1.900	14.840	.64810	.33530	.28700	.15810	.10810	.04930	.71230	-.07040	1.93300	.69530
1.900	16.990	.72940	.36350	.33480	.15490	.10400	.04990	.80940	-.07750	1.90200	.69420
1.499	18.990	.80740	.43960	.39080	.15310	.10110	.05140	.90690	-.08340	1.83600	.69290
1.499	21.100	.87970	.50330	.45230	.15040	.09630	.05390	1.00200	-.08800	1.74800	.69070
1.499	23.230	.95140	.57200	.52140	.15040	.09330	.05450	1.10000	-.08340	1.66300	.68770
1.499	25.270	1.00700	.63940	.56780	.14620	.09090	.05690	1.18400	-.08100	1.57600	.68440
1.499	27.360	1.07000	.71400	.66170	.14180	.08290	.05870	1.27900	-.07790	1.49700	.68160
GRADIENT		.04286	.00109	.00160	-.00113	-.00064	-.00040	.04568	-.00741	.23976	-.01120

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TABULATED SOURCE DATA AMES 66-706 (0443)

AMES 66-706 0443 B10 C5 D7 M3 P4 W07E16 V045

(RST017) (24 AUG 73)

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REFERENCE DATA

SURF = 2990.0000 86.0 FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 HILSON = .000 SPOBRK = 94.900
 SCPLP = -14.200 RUDDER = -80.000
 ELVHL = .000 ELVHLR = .000

RUN NO. 78/0 RM/L = 2.42 GRADIENT INTERVAL = -3.00/ 3.00

ALPHA	CL	CD	CDP	CA	CAP	CAS	CN	CLM	L/D	MCP/L
1.997	-1.526	.14900	.11310	.10770	.11180	.03810	-.04940	.00950	-.30480	.72880
2.002	.590	.14530	.10910	.14310	.10960	.03860	.02330	.00000	.16380	.65970
2.005	2.791	.14830	.11270	.14340	.10770	.03910	.10510	-.01150	.06080	.90910
2.002	4.767	.15640	.12290	.14000	.10630	.03910	.17990	-.01970	1.05000	.69930
1.999	6.620	.16800	.13180	.13970	.10240	.03800	.23310	-.02720	1.33700	.69640
1.999	8.934	.18490	.14820	.13330	.09620	.03660	.32960	-.03330	1.53700	.69410
1.999	11.000	.20370	.17220	.13410	.09680	.03690	.40470	-.03660	1.77910	.69410
1.999	13.080	.22400	.20400	.13100	.09730	.03630	.48290	-.04440	1.83500	.69260
1.999	15.130	.24450	.23680	.12890	.09460	.03620	.55770	-.04730	1.65400	.69030
1.999	17.280	.26760	.27780	.12690	.09090	.03540	.64200	-.05080	1.64770	.66610
1.999	19.330	.29390	.32670	.12580	.08950	.03610	.73080	-.05370	1.79500	.66630
1.999	21.490	.32320	.37990	.12420	.08730	.03680	.81690	-.05660	1.72600	.66480
1.999	23.480	.35550	.43590	.12090	.08310	.03720	.90280	-.05930	1.83900	.66350
1.999	25.590	.39180	.50180	.11800	.07870	.03700	.99750	-.06240	1.90700	.66240
1.999	.91220	.60520	.57070	.11100	.07200	.03680	1.08900	-.06600	1.90700	.66230
2.003	27.740	.00146	.00154	-.00061	-.00055	-.00002	.03617	-.07469	.21569	-.00232

GRADIENT

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TABULATED SOURCE DATA AVES 06-706 (0443)

AVES 06-706 0443 810 C5 D7 M3 P4 M07E10 Y0R3

0810181 (24 AUG 73)

REFERENCE DATA

SURF = 2490.0000 94.77. 10RP = 1076.4000 IN.
LREF = 474.0000 IN. 11RP = .0000 IN.
BREF = 936.0000 IN. 21RP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AIR/CON = 5.000 SPDRK = 54.000
B/DPLP = -14.200 RUDDER = .000
LWH-L = -15.000 ELVH-R = -25.000

RUN NO. 83/ 0 RW/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.801	-2.207	-4.0020	.12930	.08990	.11300	.07040	.04180	-.40490	.16640	-3.11400	.62480
.802	-1.163	-3.0430	.11530	.07510	.11450	.07450	.03930	-.30480	.18290	-2.64100	.87450
.803	1.877	-2.3360	.10770	.06660	.11530	.07473	.03930	-.25020	.19130	-2.17500	.99740
.999	3.977	-1.1630	.10260	.06140	.11060	.06720	.04000	-.11090	.18210	-1.15500	1.24700
.800	5.893	-.02640	.09930	.05670	.10170	.06700	.03970	-.01990	.18450	-.26560	4.61400
.801	8.108	.07560	.10150	.06160	.09020	.09000	.03990	.08720	.18310	.72470	-.09490
.802	10.230	.16600	.11750	.07900	.08240	.04340	.03760	.20390	.18340	1.56800	.33640
.800	12.190	.28330	.14600	.10660	.06490	.04460	.03910	.30820	.17970	1.91400	.45150
.999	14.470	.36600	.16790	.14740	.06610	.04420	.04060	.42780	.17660	2.05400	.50960
.800	16.400	.46470	.23550	.19430	.06910	.04610	.04250	.53150	.16670	2.05800	.54790
.801	18.420	.56500	.28560	.24150	.06770	.04050	.04590	.64250	.16310	2.03600	.56920
.802	20.510	.66230	.34370	.29660	.06740	.03250	.04800	.75940	.16560	1.96500	.56200
.800	22.680	.76540	.40500	.35340	.07960	.02370	.05410	.91250	.17510	1.89000	.56740
.802	24.670	.86970	.44750	.39370	.07500	.01620	.05410	.91250	.18660	1.78500	.56290
.999	26.860	.96640	.48190	.40940	.06660	.01000	.04660	.99390	.23690	1.66300	.56520
GRADIENT		.04452	-.00474	-.00397	-.07032	-.00017	-.00024	.04646	-.00022	.30890	.06575

RUN NO. 12/ 0 RW/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.898	-1.893	-.36030	.16440	.10960	.15110	.09650	.05210	-.36560	.21440	-2.31400	.69670
.804	.768	-.26050	.15060	.09970	.15110	.10000	.04690	-.26030	.19630	-1.72700	.93230
.802	2.199	-.12660	.13790	.06960	.14270	.09430	.04640	-.12120	.17620	-.91610	1.18000
.902	4.334	.01260	.14100	.09390	.13560	.08200	.04590	.02320	.15550	.06930	-1.73700
.801	6.596	.14250	.15750	.11100	.14040	.09300	.04480	.15910	.13630	.90600	.35360
.903	8.930	.26340	.17630	.13160	.13720	.06990	.04460	.26690	.12040	1.47700	.51000
.800	10.650	.37920	.21410	.16710	.14050	.09270	.04600	.41220	.10260	1.77100	.57100
.802	12.680	.46320	.24640	.19790	.13660	.06900	.04760	.50800	.10100	1.86000	.56660
.902	14.790	.54160	.26700	.24060	.13960	.09170	.04670	.59660	.09690	1.66700	.60060
.802	16.840	.63560	.34130	.29960	.14220	.06820	.05170	.70750	.10070	1.86300	.60910
.902	18.930	.70020	.39060	.33560	.14220	.06820	.05620	.78910	.11240	1.79200	.60910
.802	20.990	.75420	.44330	.36650	.14560	.06290	.05910	.86370	.13510	1.70100	.60400
.999	23.050	.79730	.50340	.43610	.15100	.06000	.06910	.93060	.16280	1.56400	.59750
.801	25.160	.79340	.53960	.47150	.15120	.07570	.07470	.94760	.20630	1.47000	.56140
.901	27.130	.81910	.56400	.51160	.14630	.06500	.08010	.99330	.22610	1.40100	.57660
GRADIENT		.06226	-.00393	-.07279	-.00204	-.00092	-.00100	.06460	-.00943	.38043	-.35970

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TABULATED SOURCE DATA AUCS 66-706 (0443)

(081019) (84 AUG 75)

AUCS 66-706 0443 BID CS DT MO P4 W87E18 V888

REFERENCE DATA

BREF = 2090.0000 84.00 FT. 1000 = 1076.4600 IN.
 LREF = 474.0000 IN. 1000 = .0000 IN.
 BREF = 936.0000 IN. 2000 = 407.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 87/ 0 RN/L = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.800	-4.431	.4000	.1990	.1107	.0990	.0200	.0481	.9070	.0207	3.0300	.6397
.801	-2.333	.4000	.1617	.1130	.0720	.0250	.0400	.9040	.0310	2.5470	.6300
.802	-2.287	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.803	.729	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.804	1.691	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.805	3.631	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.806	5.767	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.807	7.725	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.808	9.948	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.809	11.090	.4000	.1640	.1120	.0730	.0240	.0410	.9040	.0310	2.5470	.6300
.810	GRADIENT	.00037	.00032	.00032	.00022	.00031	.00061	.00061	.00032	.00032	.00061

RUN NO. 88/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.801	-4.665	.5070	.2220	.1677	.1270	.0717	.0580	.9390	.0070	2.2600	.6554
.802	-2.636	.5070	.2210	.1660	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.803	-6.32	.5070	.2220	.1690	.1260	.0720	.0580	.9390	.0070	2.2600	.6550
.804	.396	.5070	.2220	.1720	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.805	1.592	.5070	.2220	.1710	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.806	3.524	.5070	.2220	.1710	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.807	5.545	.5070	.2220	.1710	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.808	7.603	.5070	.2220	.1710	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.809	9.680	.5070	.2220	.1710	.1260	.0720	.0580	.9390	.0060	2.2600	.6550
.810	GRADIENT	.00025	.00013	.00013	.00016	.00030	.00030	.00025	.00013	.00013	.00030

RUN NO. 89/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.800	-4.710	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.801	-2.679	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.802	-7.56	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.803	.291	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.804	1.574	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.805	3.517	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.806	5.616	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.807	7.643	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.808	9.627	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.809	10.600	.5580	.2757	.2161	.1690	.1067	.0590	.9940	.0080	2.0250	.6690
.810	GRADIENT	.00080	.00026	.00026	.00026	.00037	.00037	.00080	.00026	.00026	.00037

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 SPORER = .000
 RUDER = -14.200 RUDER = .000
 ELVN-L = .000 ELVN-R = .000

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TABLE 1 SOURCE DATA AYES 66-706 (0343)

(RST019) (24 AUG 75)

AYES 66-706 0343 B10 C5 D7 M5 P4 M57E18 VRS

REFERENCE DATA

SREF = 2000.000 50.00 FT. 1000 P = 1076.4000 IN.
 LREF = 474.6000 IN. 1000 P = .0000 IN.
 BREF = 936.80 IN. 2000 P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AILRON = .000 SPOBR = 54.500
 SCOP = -14.200 RUDDER = .000
 CLWL = .000 ELVNR = .000

RUN NO. 84/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.502	-4.448	.25320	.20240	.10910	.03060	.38450	.00770	.00770	.00770	.00770	.00770
1.500	-2.477	.25310	.20310	.10940	.03070	.38640	.00840	.00840	.00840	.00840	.00840
1.500	-4.9150	.25340	.20310	.10960	.03080	.38830	.00910	.00910	.00910	.00910	.00910
1.500	.074	.25320	.20350	.11090	.04030	.53100	.00940	.00940	.00940	.00940	.00940
1.500	1.354	.25350	.20350	.11100	.04060	.54970	.00990	.00990	.00990	.00990	.00990
1.500	3.626	.25420	.20490	.11080	.05000	.58960	.01040	.01040	.01040	.01040	.01040
1.500	5.729	.25460	.20410	.11000	.05130	.58480	.01120	.01120	.01120	.01120	.01120
1.499	7.790	.25250	.20150	.10600	.05230	.51960	.01220	.01220	.01220	.01220	.01220
1.500	9.764	.25100	.19950	.10480	.05470	.51750	.01340	.01340	.01340	.01340	.01340
1.500	10.660	.25030	.19670	.10024	.05470	.51750	.01460	.01460	.01460	.01460	.01460
1.500	GRADIENT	.00076	.00011	.00036	.00024	.00016	.00077	.00077	.00077	.00077	.00077

RUN NO. 84/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.996	-5.067	.20680	.16970	.09930	.03740	.40070	.00700	.00700	.00700	.00700	.00700
1.999	-2.995	.20490	.16950	.09910	.03690	.40100	.00730	.00730	.00730	.00730	.00730
1.999	-1.001	.20350	.16920	.09660	.03650	.40130	.00760	.00760	.00760	.00760	.00760
1.999	.024	.20630	.16990	.09920	.03660	.40230	.00790	.00790	.00790	.00790	.00790
1.999	1.067	.20610	.17010	.09940	.03660	.40220	.00820	.00820	.00820	.00820	.00820
1.999	3.065	.20590	.16940	.09980	.03690	.40290	.00850	.00850	.00850	.00850	.00850
1.999	5.285	.20640	.16930	.09780	.03740	.40670	.00880	.00880	.00880	.00880	.00880
1.999	7.417	.20600	.16780	.09630	.03850	.40640	.00910	.00910	.00910	.00910	.00910
1.997	9.270	.20560	.16630	.09460	.03960	.40750	.00940	.00940	.00940	.00940	.00940
1.996	10.270	.20560	.16600	.09440	.03990	.40750	.00970	.00970	.00970	.00970	.00970
1.996	GRADIENT	.00031	.00018	.00014	.00010	.00005	.00033	.00033	.00033	.00033	.00033

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TABULATED SOURCE DATA ANES 66-T06 (0443)

ANES 66-T06 0443 B10 C5 D7 M3 P4 1876218 V383

(ROTATED) (24 AUG 73)

REFERENCE DATA

902P = 2880.0000 88.47. 108P = 1076.4600 IN.
 902P = 474.2000 IN. 108P = .0000 IN.
 902P = 936.8000 IN. 208P = 400.0000 IN.
 SCALP = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 ALLCON = .000 SPOBRK = 34.900
 SCPLP = -14.200 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

RUN NO. 93/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CDP	CA	CAF	CAB	ON	CLM	L/D	KCP/L
.908	-5.267	-.01310	.00980	.04270	.00980	.04270	.04980	-.01310	.03480	-.14680	1.60700
.906	-3.232	-.01970	.00910	.04470	.09190	.04470	.04810	-.01970	.03790	-.21470	1.34700
.904	-1.269	-.02190	.00840	.04630	.09470	.04630	.04570	-.02190	.03840	-.23100	1.29700
.902	-.266	-.02480	.00810	.04930	.09810	.04930	.04580	-.02480	.03960	-.23980	1.23900
.900	.808	-.02340	.00950	.05020	.09580	.05020	.04490	-.02340	.03970	-.24440	1.26800
.898	2.845	-.02180	.00940	.04730	.09410	.04730	.04800	-.02180	.03710	-.23000	1.27800
.896	4.869	-.01820	.00910	.04270	.09130	.04270	.04730	-.01820	.03120	-.19880	1.27400
.894	6.920	-.01480	.00820	.03780	.08820	.03780	.04920	-.01480	.02960	-.16810	1.27600
.892	8.974	-.00910	.00680	.03370	.08660	.03370	.05140	-.00910	.02070	-.10320	1.47000
.890	9.917	-.00740	.00530	.03260	.08530	.03260	.05110	-.00740	.01740	-.06630	1.50700
.888	GRADIENT	-.00024	-.00012	-.00030	-.00012	-.00030	.00014	-.00024	-.00077	.00225	-.00666

RUN NO. 92/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CDP	CA	CAF	CAB	ON	CLM	L/D	KCP/L
.908	-5.379	-.00980	.12100	.06340	.12100	.06340	.05980	-.00980	.03680	-.08100	2.00700
.906	-3.304	-.00830	.11340	.06920	.11340	.06920	.04420	-.00830	.03920	-.07490	2.31200
.904	-.473	.00210	.11600	.06990	.11600	.06990	.04380	.00210	.03640	.01820	-5.44300
.902	.564	.00300	.12080	.07150	.12080	.07150	.04880	.00300	.03460	.02490	-3.41900
.901	2.561	.00280	.11670	.06790	.11670	.06790	.04960	.00280	.03280	.02350	-3.50800
.903	4.842	.00360	.12010	.06800	.12010	.06800	.05210	.00360	.02890	.03170	-2.00100
.905	6.661	.00300	.11930	.06000	.11930	.06000	.05770	.00300	.02260	-.00020	6797.00000
.909	8.746	-.00030	.11480	.05270	.11480	.05270	.06040	-.00030	.01700	-.00230	24.33000
.909	9.735	-.00180	.11790	.05150	.11790	.05150	.06450	-.00180	.01370	-.01520	3.40500
.903	GRADIENT	.00139	.00081	-.00042	.00081	-.00042	.00100	.00139	-.00128	.01201	-.43562

RUN NO. 91/ 0 RV/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CDP	CA	CAF	CAB	ON	CLM	L/D	KCP/L
1.196	-5.981	.02450	.17130	.10450	.17130	.10450	.06480	.02450	.02650	.14290	.27310
1.199	-3.558	.02180	.17130	.11040	.17130	.11030	.05960	.02180	.02920	.12720	.18270
1.199	-1.591	.02320	.17080	.11280	.17080	.10730	.05730	.02320	.03010	.13550	.19720
1.196	-.533	.02280	.17090	.11380	.17090	.11380	.05640	.02280	.02940	.13370	.19850
1.197	.431	.02320	.17030	.11380	.17030	.11380	.05590	.02320	.02940	.13630	.20920
1.199	2.545	.02170	.16880	.11580	.16880	.11580	.05340	.02170	.02930	.12630	.17920
1.199	4.532	.01980	.16820	.11420	.16820	.11420	.05450	.01980	.02710	.11390	.15710
1.196	6.588	.01990	.16870	.10990	.16870	.10990	.05900	.01990	.02330	.09450	.13530
1.196	8.635	.01440	.16650	.10420	.16650	.10420	.06230	.01450	.01870	.06660	.19710
1.196	9.678	.01390	.16580	.10080	.16580	.10070	.06480	.01350	.01590	.06120	.23830
1.196	GRADIENT	-.00034	-.00042	.00042	-.00042	.00031	-.00068	-.00035	-.00025	-.00175	-.00364

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 68-706 (0A43)

(081020) (84 AUG 73)

AXES 68-706 0A43 810 C5 D7 M3 P4 M87E16 V4R8

REFERENCE DATA

REF = 2000.0000 90.FT. 300P = 1076.4000 IN.
 LREF = 474.0000 IN. 100P = .0000 IN.
 BREF = 936.0000 IN. 200P = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 90/ 0 RM/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CTF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.502	-5.405	.02950	.16830	.11440	.16830	.11440	.05270	.02960	.01000	.16930	.53480
1.500	-3.454	.02600	.16660	.11500	.16660	.11500	.05040	.02890	.01060	.17280	.52650
1.500	-1.413	.02760	.16590	.11650	.16590	.11650	.04840	.02760	.01150	.16810	.51160
1.500	-.396	.02690	.16500	.11670	.16500	.11670	.04760	.02700	.01150	.16310	.50780
1.500	.625	.02600	.16480	.11820	.16480	.11820	.04610	.02610	.01110	.15790	.50650
1.499	2.601	.02610	.16490	.11860	.16490	.11860	.04680	.02620	.00940	.15650	.53190
1.499	4.717	.02560	.16540	.11780	.16540	.11780	.04760	.02570	.00740	.15500	.55690
1.497	6.836	.02750	.16550	.11410	.16550	.11410	.05100	.02740	.00840	.16510	.62930
1.496	8.848	.02460	.16350	.11070	.16340	.11070	.05240	.02470	-.00170	.15050	.68530
1.499	9.891	.02470	.16110	.10610	.16110	.10610	.05270	.02470	-.00520	.15300	.73540
	GRADIENT	-.00036	-.00015	.00036	-.00015	.00037	-.00037	-.00036	-.00046	-.00209	.00423

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AILION = .000 9000R = 54.900
 BOOPL = -14.200 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

RUN NO. 89/ 0 RM/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CTF	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.999	-5.866	.01390	.14210	.10540	.14210	.10340	.03780	.01390	-.00980	.09790	.90500
2.005	-3.948	.01460	.14400	.10620	.14400	.10620	.03690	.01470	-.00660	.10160	.82340
2.002	-1.893	.01350	.14250	.10570	.14250	.10570	.03610	.01350	-.00810	.09330	.82240
2.002	-.872	.01390	.14200	.10590	.14200	.10590	.03550	.01400	-.00550	.09620	.79960
1.999	.174	.01450	.14200	.10560	.14200	.10560	.03550	.01430	-.00550	.10040	.79370
1.999	2.204	.01240	.14200	.10560	.14200	.10560	.03560	.01240	-.00620	.06740	.63950
2.002	4.290	.01030	.14020	.10350	.14020	.10350	.03610	.01030	-.00920	.07520	.96070
1.999	6.262	.01170	.14020	.10330	.14020	.10330	.03640	.01170	-.01300	.06320	1.05700
1.999	8.323	.00650	.13780	.10050	.13780	.10050	.03690	.00650	-.01890	.06170	1.45500
1.999	9.359	.00660	.13720	.09990	.13720	.09990	.03700	.00660	-.02270	.06000	1.64500
	GRADIENT	-.00047	-.00036	-.00027	-.00036	-.00027	-.00006	-.00046	-.00026	-.00313	.01667

(RST021) (24 AUG 75)

TABULATED SOURCE DATA AVES 66-706 (0443)
AVES 66-706 0443 B10 C5 D7 M5 P4 M07E16 V5R5

DATE 28 SEP 75

PARAMETRIC DATA

BETA = 5.000 ELEVON = 1.000
AILKON = .000 SPOORX = 34.900
BOOPLP = -14.200 RUOZER = .000
ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

REF = 2990.0000 54.17. XGRP = 1076.4000 IN.
LREF = 474.6000 IN. YGRP = .0000 IN.
BREF = 936.6000 IN. ZGRP = 600.0000 IN.
SCALE = .0150 SCALE

RUN NO. 96/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
.801	-2.263	-.10960	.08623	.03900	.08360	.03460	.04760	-.11380	.04100	-1.24300	.76990
.801	-.134	-.01320	.08460	.03660	.08460	.03670	.04720	-.01540	.04150	-.17060	1.63700
.802	1.949	.07630	.08570	.03920	.08300	.03640	.04590	.07940	.04270	.09260	.46790
.803	4.043	.17810	.09140	.04420	.07660	.03130	.04620	.16410	.03970	1.94900	.50290
.801	6.101	.28240	.10190	.05900	.07130	.02420	.04610	.29180	.03690	2.77200	.61470
.802	8.126	.34610	.11840	.07310	.06260	.01680	.04460	.39690	.03430	3.26100	.62920
.803	10.270	.49590	.15400	.11600	.06820	.02010	.04320	.51500	.02890	3.21000	.63990
.800	12.270	.57620	.19610	.15220	.06820	.02420	.04710	.60470	.02690	2.93600	.64410
.599	14.970	.67290	.24910	.20310	.07260	.03070	.04760	.71360	.02350	2.70100	.64620
.800	16.410	.76330	.30690	.26070	.07860	.03790	.04950	.81690	.01230	2.46700	.65460
.802	18.960	.87970	.37750	.33030	.07810	.02830	.05120	.95350	.00620	2.32900	.65770
.801	20.620	.96810	.44360	.39540	.07420	.02270	.05430	1.06200	.01090	2.16200	.65630
.801	22.570	1.01300	.49760	.44750	.07070	.01630	.06390	1.12600	.02400	2.03900	.65240
.800	24.600	.96140	.52160	.46310	.06610	.00180	.06390	1.10900	.07360	1.86000	.63620
.800	26.660	.91310	.53620	.46660	.07130	-.00650	.07470	1.03700	.11660	1.69700	.61960
GRADIENT		.04340	.00749	.00065	-.00062	-.00048	-.00029	.04666	-.00012	.50630	-.06439

RUN NO. 97/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
.904	-1.964	-.09890	.11660	.06480	.11330	.06100	.09170	-.09690	.04070	-.76720	.81080
.901	.119	.11290	.11290	.08090	.11390	.06060	.09120	.01430	.03670	.12460	-.25700
.900	2.277	.10600	.11660	.08650	.11490	.06410	.09100	.11070	.04020	.98240	.83030
.899	4.393	.21010	.12770	.07960	.11120	.06320	.09100	.21080	.03670	1.64500	.80010
.902	6.450	.30680	.15120	.10510	.11560	.06620	.09100	.32360	.03370	2.03700	.82260
.901	8.522	.40480	.17710	.13130	.11520	.06690	.09100	.42800	.02560	2.28300	.83690
.902	10.660	.50720	.21620	.16960	.11640	.07100	.09100	.53690	.01440	2.34800	.85090
.900	12.700	.60400	.25790	.20640	.11680	.06600	.09100	.64590	.00230	2.34800	.85870
.899	14.750	.70120	.31060	.25770	.12200	.06710	.09100	.75720	-.00790	2.29600	.86340
.899	16.960	.80120	.37370	.32160	.12670	.07240	.09100	.86580	-.00130	2.11700	.86090
.901	18.930	.88140	.43560	.38700	.13260	.07370	.09100	.95620	.00010	1.97700	.85290
.901	21.020	.99550	.48590	.42400	.13060	.06630	.09100	1.05100	.03330	1.85100	.84160
.900	23.060	.91350	.53700	.46330	.13590	.05570	.09100	1.11000	.09040	1.70100	.83090
.900	25.200	.94360	.60090	.51960	.14200	.04760	.09100	1.16600	.10130	1.47600	.82930
.900	27.260	.96560	.66960	.56240	.14160	.04350	.09100	1.16600	.10130	1.47600	.82930
.901	27.260	.96560	.66960	.56240	.14160	.04350	.09100	1.16600	.10130	1.47600	.82930
GRADIENT		.04714	.00165	.00257	-.00022	.00047	-.00061	.04920	-.00040	.36117	.00647

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 B10 C5 D7 H5 P4 W0TE16 V0RS

(081021) (24 AUG 73)

REFERENCE DATA

SREF = 2000.0000 58.47. XREF = 1076.4000 IN.
LREF = 474.0000 IN. YREF = .0000 IN.
BREF = 936.0000 IN. ZREF = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILLON = .000 SPOBRK = 54.900
BOOPLP = -14.500 RUDDER = .000
ELVN-L = .000 ELVN-R = .000

RUN NO. 96/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.196	-1.924	-.07740	.16580	.11260	.16290	.11010	.05350	-.06290	.04890	-.46730	.87090
1.201	.149	.03450	.16450	.11210	.16420	.11200	.05290	.03470	.02670	.20860	.58500
1.205	2.499	.15910	.17850	.12060	.16940	.11370	.03610	.16660	.00460	.90120	.65010
1.200	4.553	.27320	.16900	.13560	.16650	.11300	.05420	.28940	-.01690	1.45700	.60090
1.203	6.974	.37560	.21240	.15690	.16900	.11210	.05640	.39780	-.03060	1.76900	.64750
1.203	8.662	.47350	.24230	.16610	.16810	.11120	.05760	.50440	-.04060	1.95300	.68690
1.203	10.620	.59170	.26390	.22670	.16920	.11120	.05920	.62470	-.05340	2.04900	.69060
1.204	12.840	.68360	.32920	.27170	.16910	.11010	.05920	.73970	-.06390	2.07700	.69090
1.202	15.740	.77640	.39460	.32700	.17020	.11030	.06010	.84970	-.06690	2.01600	.68900
1.199	17.220	.87060	.44920	.36910	.17120	.10630	.06310	.96480	-.07600	1.93900	.68730
1.190	19.100	.94630	.50640	.44320	.16850	.10410	.06450	1.06000	-.08090	1.86900	.68450
1.200	21.240	1.01100	.56600	.50820	.16290	.09660	.06450	1.14600	-.07660	1.78100	.66630
1.200	23.340	1.01000	.60260	.54770	.15300	.09320	.06010	1.16600	-.02700	1.67700	.66130
1.200	25.560	1.03100	.64590	.59310	.14200	.08360	.05690	1.20600	-.00440	1.59600	.65630
1.200	27.410	1.07700	.70990	.65610	.13490	.07400	.05820	1.26300	.00800	1.51700	.65630
GRADIENT		.05426	.00379	.00354	.00075	.00046	.00025	.05732	-.01007	.29665	-.01291

RUN NO. 95/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.496	-2.104	-.06660	.16700	.11690	.16430	.11420	.04960	-.07530	.02660	-.41440	.79630
1.502	-.030	.02290	.16340	.11440	.16340	.11440	.04890	.02270	.01000	.19960	.50120
1.502	2.101	.11460	.16720	.11920	.16290	.11460	.04900	.15090	-.00430	.66640	.67660
1.500	4.294	.21170	.17690	.12640	.16190	.11500	.04870	.22440	-.01910	1.19700	.60040
1.500	6.446	.30720	.19550	.14780	.15970	.11190	.04690	.38780	-.03430	1.37100	.66740
1.501	8.526	.39700	.22190	.17250	.16060	.11060	.04990	.42350	-.04700	1.76900	.69980
1.501	10.590	.48630	.25320	.20360	.15950	.10910	.05030	.52460	-.05960	1.98100	.70070
1.500	12.630	.57400	.29210	.24220	.15950	.10640	.05110	.62400	-.07110	1.94900	.70070
1.500	14.790	.65990	.33620	.28990	.15660	.10610	.05040	.72440	-.07960	1.93100	.69940
1.500	16.880	.74020	.36640	.33610	.15490	.10440	.05000	.82050	-.08160	1.91600	.69990
1.500	18.930	.81590	.44060	.39250	.15220	.10120	.05050	.91460	-.08640	1.89100	.69490
1.496	21.060	.88990	.50700	.45360	.14720	.09720	.04990	1.00900	-.08990	1.77600	.69160
1.496	23.220	.94190	.57000	.52190	.14460	.09200	.04940	1.10600	-.09190	1.68700	.68940
1.502	25.500	1.00700	.63640	.58750	.14350	.08700	.05600	1.19500	-.08660	1.59700	.68600
1.502	27.370	1.03100	.71990	.66670	.14240	.08240	.05950	1.29100	-.08200	1.50100	.66270
GRADIENT		.04363	.00199	.00166	-.00056	-.00029	-.00019	.04676	-.00710	.23223	-.00510

DATE 28 SEP 75

TABULATED SOURCE DATA AVES 66-706 (OM/3)

AVES 66-706 OM/3 B10 C5 D7 M3 P4 WBYE18 VNR3

(081021) (24 AUG 75)

REFERENCE DATA

REF = 2990.0000 96. FT. 10RP = 1076.4000 IN.
 LREF = 474.8000 IN. 10RP = .0000 IN.
 BREF = 936.6000 IN. 20RP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = 5.000 ELEVON = .000
 ALURON = .000 SPORR = 54.900
 BOFLP = -14.800 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

PARAMETRIC DATA

RUN NO. 94/ 0 R/L = 2.35 GRADIENT INTERVAL = -5.00/ 5.00

MACI	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	KCP/L
2.002	-1.800	-.04430	.14290	.10680	.14180	.10530	.03970	-.04630	-.00170	-.30990	.64740
2.006	.437	.02450	.13920	.10280	.13900	.10280	.03990	.02590	-.01000	-.17540	.79940
2.001	2.747	.16700	.14470	.10890	.13940	.10380	.03980	.11360	-.02030	.73920	.72370
2.004	4.649	.16800	.15380	.11640	.13950	.10210	.03710	.18010	-.02960	1.09900	.71660
2.004	6.836	.24380	.15990	.12990	.13670	.09940	.03710	.26200	-.03680	1.46100	.71000
2.006	8.852	.30970	.16500	.14780	.13920	.09740	.03740	.33490	-.04260	1.67400	.70560
2.007	10.930	.37830	.20790	.17090	.13250	.09470	.03740	.41090	-.04740	1.81900	.70120
2.009	13.030	.49070	.25940	.20280	.13150	.09390	.03760	.49310	-.05160	1.88200	.69740
2.001	15.180	.52020	.27540	.23690	.12570	.09150	.03670	.57420	-.05610	1.89000	.69490
1.999	17.250	.56940	.31430	.27880	.12570	.06850	.03660	.65520	-.05930	1.87200	.69230
1.999	19.290	.65780	.36020	.32500	.12330	.06600	.03670	.73990	-.06250	1.82600	.69020
1.996	21.340	.72590	.41340	.37700	.12150	.06240	.03670	.82470	-.06640	1.75100	.68680
1.996	23.470	.79150	.47310	.43680	.11870	.07910	.03930	.91450	-.06770	1.67300	.68650
1.996	25.510	.85420	.53460	.49980	.11450	.07670	.03960	1.00100	-.07120	1.59800	.68340
1.996	27.630	.91890	.60700	.57310	.11100	.07330	.03830	1.09600	-.07560	1.51400	.68470
	GRADIENT	.03422	.00177	.00166	-.00028	-.00042	.00020	.03676	-.00432	.22727	.00607

TABULATED SOURCE DATA AYES 66-706 (0443)

AYES 66-706 0443 B10 C5 D7 M3 F4 M87E18 V3R3

(R87022) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 58.17. XRRP = 1076.4800 IN.
 LREF = 474.6000 IN. YRRP = .0000 IN.
 PREF = 934.6000 IN. ZRRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.01X0
 AILRON = .000 SPDRK = 54.51X0
 BOOPLP = -14.800 RUDDER = .01X0
 ELWH-L = -20.000 ELWH-R = -20.01X0

RUN NO. D/ D RVL = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.803	-2.287	-41840	.13570	.09010	.11590	.07330	.04090	-.42340	.19510	-3.15400	.82470
.802	-2.282	-31850	.11950	.07680	.11800	.07320	.04170	-.31870	.19040	-2.88300	.87380
.802	-2.282	-31850	.11950	.07680	.11800	.07320	.04170	-.31870	.19040	-2.88300	.87380
.802	-2.282	-31850	.11950	.07680	.11800	.07320	.04170	-.31870	.19040	-2.88300	.87380
.801	3.989	-12550	.10540	.06240	.11390	.07070	.04140	-.11780	.18590	-1.19000	1.22400
.802	6.015	-10290	.10330	.06210	.10560	.06440	.04110	-.01870	.18630	-2.88700	4.21500
.803	8.098	-07410	.10670	.06790	.09520	.05800	.03630	.08440	.18470	.89450	-.08670
.802	10.200	.18550	.12500	.08480	.08220	.04940	.03770	.20410	.18220	1.50700	.34090
.800	12.280	.29190	.15620	.11740	.09050	.05090	.03690	.31840	.17710	1.86900	.48120
.800	14.350	.30470	.19360	.15520	.08250	.05270	.03910	.42070	.17540	1.96500	.51090
.800	16.410	.47750	.24120	.20050	.09670	.05420	.04180	.52800	.16660	1.97900	.54520
.804	18.390	.56750	.28980	.24780	.09590	.05180	.04280	.62990	.18790	1.95900	.56470
.801	20.450	.66200	.34670	.30310	.09360	.04690	.04520	.74150	.17630	1.90900	.57500
.801	22.650	.74190	.40830	.33950	.09120	.03820	.05090	.84190	.18600	1.81700	.58100
.598	24.520	.77480	.44650	.39470	.08470	.02780	.05440	.89010	.20410	1.73500	.57600
.800	26.590	.75140	.46640	.41450	.08110	.02310	.05560	.88070	.23950	1.61100	.58270
.598	.04969	-.00431	-.00429	-.00026	-.00001	-.00001	-.00001	.04771	-.00115	-.30583	.08113

RUN NO. D/ D RVL = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.801	-2.110	-39120	.16170	.11630	.14720	.10180	.04430	-.39690	.22040	-2.41900	.88850
.802	-2.104	-28690	.14620	.10310	.14030	.10290	.04200	-.28900	.20100	-1.84000	.92710
.803	2.280	-12340	.13750	.09630	.14220	.10100	.04090	-.11790	.17770	-.89800	1.19900
.803	4.390	.01360	.14170	.10150	.14020	.10000	.04040	.02470	.15640	.09800	-1.60800
.900	6.460	.14950	.15590	.11500	.13810	.09690	.04120	.16610	.13680	.95900	.36550
.901	8.680	.27100	.18130	.14050	.13840	.09720	.04070	.29530	.11950	1.49500	.51330
.901	10.630	.38930	.21620	.17370	.14070	.09740	.04240	.42250	.09770	1.80100	.57750
.903	12.670	.47760	.25100	.20810	.14010	.09620	.04340	.52100	.09400	1.90300	.59550
.901	14.690	.54690	.29590	.24950	.14540	.09750	.04390	.60460	.09970	1.84600	.60100
.906	16.940	.62360	.34470	.29670	.14810	.09800	.04880	.69690	.10420	1.80900	.60850
.901	18.800	.69050	.39320	.34210	.14980	.09570	.05240	.78140	.11300	1.75600	.60450
.900	20.980	.75170	.45100	.39260	.15190	.08940	.06080	.86340	.13410	1.56700	.59690
.899	23.000	.78250	.50130	.43620	.15590	.08310	.06460	.91600	.16170	1.56700	.59690
.898	25.020	.77400	.53240	.46670	.15510	.08190	.07250	.92650	.20840	1.45400	.57960
.905	.85120	.65120	.62070	.53930	.16470	.07330	.08060	1.04100	.21010	1.37100	.58760
	.08242	-.00314	-.00234	-.00026	-.00114	-.00034	-.00039	.06496	-.00968	.38996	-.32568

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 810 C5 D7 H5 P4 007E18 VSR5

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(081022) (13 SEP 73)

REFERENCE DATA

SRCF = 2000.0000 56.17. XMRP = 1076.4600 IN.
 LMRP = 474.8000 IN. YMRP = .0000 IN.
 BRPF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -80.000
 AILSON = .000 RPOBNA = 74.900
 BOOPLP = -14.800 RUDDER = .000
 ELVHL = -20.000 ELVHL = -80.000

RUN NO. 0/0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.197	-1.902	-22910	.20700	.14710	.19630	.13640	.03730	-.28990	.17330	-1.28800	.69300
1.201	.123	-13780	.19720	.13770	.19750	.13600	.05760	-.13780	.14470	-.09790	1.03700
1.201	2.374	-01050	.19700	.13780	.19750	.13600	.05750	-.00230	.11810	-.03380	16.94000
1.201	4.318	.10090	.20390	.14430	.19570	.13620	.05780	.11350	.09610	.49880	.36890
1.199	6.567	.21470	.22030	.16030	.19440	.13560	.05680	.23660	.07930	.97370	.34080
1.200	8.651	.31690	.24240	.18250	.19200	.13140	.05920	.34970	.06660	1.30700	.59190
1.200	10.760	.42960	.27360	.21470	.18930	.12930	.05900	.48930	.05270	1.55500	.61900
1.200	12.770	.52520	.31040	.25080	.18660	.12550	.06040	.58760	.04300	1.69200	.63350
1.200	14.990	.63730	.36040	.30010	.18330	.12060	.06190	.70690	.02990	1.76000	.64490
1.196	17.180	.74080	.41900	.35690	.18140	.11630	.06470	.83110	.01870	1.76700	.65190
1.197	19.160	.81030	.47170	.40650	.17960	.11080	.06600	.92720	.01950	1.66000	.65170
1.200	21.180	.87440	.52670	.46180	.17510	.10530	.06690	1.00800	.02330	1.66000	.64580
1.200	23.390	.92500	.58270	.51800	.16950	.09910	.06690	1.06000	.04280	1.56700	.63370
1.199	25.330	.92310	.61590	.55330	.16160	.09470	.06620	1.09800	.08060	1.49970	.62560
1.200	27.370	.93740	.65940	.59720	.15430	.08430	.06950	1.13600	.10940	1.42200	.62560
GRADIENT		.03766	-.00047	-.00036	-.00036	-.00031	.00006	.06116	-.01233	-.28116	.68287

RUN NO. 0/0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	COF	CA	CAF	CAB	CN	CLM	L/D	KCP/L
1.496	-2.075	-118750	.19210	.14130	.16520	.13480	.04910	-.19430	.10920	-.97610	.60790
1.500	-.027	-.09560	.18260	.13300	.16280	.13300	.04850	-.09570	.09170	-.52380	1.00200
1.501	2.149	.00410	.13140	.18020	.16120	.13110	.04820	.01080	.07180	.02280	-1.70000
1.501	4.266	.10290	.16260	.17440	.17440	.12620	.04740	.11630	.05440	.56360	.48270
1.501	6.426	.19240	.19460	.17190	.17190	.12460	.04650	.21300	.04160	.98670	.58990
1.499	8.350	.27890	.21130	.16890	.16890	.12170	.04620	.30860	.03210	1.32000	.62860
1.498	10.500	.37330	.23970	.19260	.16600	.11880	.04620	.41260	.01970	1.57000	.64300
1.499	12.570	.46180	.27230	.22480	.16520	.11660	.04610	.51000	.00790	1.69000	.65430
1.499	14.740	.55040	.31270	.26400	.16230	.11200	.04960	.61190	-.00020	1.76000	.66010
1.499	16.790	.62800	.35620	.30750	.15970	.10680	.05040	.70410	-.01140	1.78300	.66280
1.501	18.900	.70840	.40920	.35940	.15750	.10460	.05230	.80320	-.01490	1.73200	.66510
1.499	20.970	.76510	.46910	.41670	.15700	.10090	.05560	.90100	-.01520	1.67400	.66590
1.499	23.100	.85800	.53530	.48140	.15570	.09710	.05630	.99930	-.01270	1.60300	.66540
1.498	25.110	.92440	.60030	.54330	.15130	.09060	.06070	1.09200	-.01270	1.54000	.66420
1.498	27.320	.96000	.66660	.61470	.14420	.08350	.06720	1.17600	-.00340	1.46800	.66100
GRADIENT		.04566	-.00143	-.00109	-.00164	-.00130	-.00025	.04883	-.00867	.24300	-.16011

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 88-708 (0443)

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ANES 88-708 0443 B10 C5 07 M3 P4 W07E18 V3M8

(087022) (13 SEP 73)

REFERENCE DATA

800P = 2000.0000 80.0 FT. 100P = 1076.4000 IN.
 100P = 474.8000 IN. 100P = .0000 IN.
 800P = 936.8000 IN. 200P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -80.000
 ALLUON = .000 SPORON = 84.900
 800P = -14.800 RUDDER = .000
 ELVN-L = -80.000 ELVN-R = -80.000

RUN NO. 0 / 0 RV/L = 2.45 GRADIENT INTERVAL = -8.00/ 9.00

WACH	ALPHA	CL	CD	CDP	CA	CAP	CAS	ON	CLM	L/D	K/P/L
1.996	-1.563	-1.12210	.15990	.12220	.15290	.11660	.03490	-.12630	.03720	-.76380	.82260
1.998	.532	-.04370	.15080	.11630	.15100	.11670	.03390	-.04230	.04490	-.89030	1.03920
2.001	2.640	.02890	.14900	.11460	.14750	.11330	.03390	.03990	.03240	.16410	.33660
2.001	4.605	.09950	.15280	.11920	.14400	.11090	.03310	.11170	.02180	.63220	.39100
2.001	6.781	.17110	.16240	.12960	.14100	.10600	.03290	.13910	.01900	1.05400	.63940
1.996	8.634	.24480	.17540	.14280	.13580	.10250	.03260	.26680	.00390	1.39400	.65210
1.996	10.960	.31310	.19560	.16290	.13250	.09920	.03310	.34480	.00020	1.80100	.65980
1.996	12.960	.36160	.22380	.19060	.13240	.09430	.03360	.42210	-.00460	1.70500	.66390
1.996	15.070	.44840	.25320	.21940	.12790	.09000	.03470	.49860	-.00600	1.77100	.66370
1.996	17.190	.51910	.29250	.25770	.12790	.08730	.03630	.56230	-.01090	1.77500	.66670
1.996	19.220	.56880	.33670	.30200	.12530	.08390	.03790	.66710	-.01180	1.74200	.66630
1.996	21.310	.65610	.36770	.35160	.12270	.08090	.03850	.75210	-.01380	1.69200	.66630
1.996	23.400	.72240	.44260	.40740	.11930	.07710	.03810	.83840	-.01470	1.63200	.66620
1.996	25.130	.78610	.50180	.46710	.11560	.07710	.03820	.92540	-.01710	1.56600	.66660
1.996	27.560	.85090	.56830	.53340	.11010	.07070	.03910	1.01700	-.01800	1.49700	.66630
1.995		.03537	-.00056	-.00051	-.00139	-.00136	.00003	.03799	-.00577	.22976	-.06740

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 86-706 (0443)

PAGE 57

0807023) (29 JUN 73)

AXES 86-706 0443 BID C5 D7 NS P4 M87E16 V8R5

REFERENCE DATA

MREF = 2000.0000 50.0 FT. XREF = 1076.4800 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.00 IN.
 SCALE = .0150 SCALE

RUN NO. 105/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = -80.000
 AIRLON = 5.000 SPOON = 54.900
 SCOPUP = -14.000 RUDDER = .000
 CLWHL = -15.000 CLWHL = -25.000

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.806	-2.347	-.41600	.13050	.09150	.11340	.07430	.03640	-.42100	.16950	-3.16700	.82080
.809	-.196	-.30970	.11850	.07950	.11740	.07820	.03640	-.31010	.10430	-2.61400	.67250
.810	1.880	-.21680	.11010	.07100	.11720	.07800	.03640	-.21290	.16300	-1.96700	.96740
.808	4.064	-.10680	.10500	.06650	.11250	.07370	.03640	-.09910	.17490	-1.01700	1.29100
.702	6.067	-.01980	.17260	.06420	.10430	.06960	.03600	-.00600	.17890	-.19310	7.69900
.999	8.101	.06590	.10770	.06890	.09460	.05350	.03610	.10020	.17590	.79720	.03260
.800	10.250	.19360	.12260	.06550	.08640	.05350	.03710	.21280	.17420	1.57800	.36700
.999	12.230	.29190	.15800	.11860	.09070	.05250	.03760	.31830	.17470	1.67100	.46370
.801	14.420	.39360	.19560	.16060	.09150	.05530	.03640	.43010	.16750	2.01100	.52060
.998	16.400	.49140	.24400	.20600	.09350	.05560	.03660	.54040	.16000	2.01400	.55410
.803	18.480	.59570	.29510	.25730	.09500	.05310	.04000	.65290	.15520	1.99900	.57500
.802	20.450	.68060	.34960	.30760	.08990	.04490	.04410	.76010	.15770	1.94600	.56560
.994	22.520	.76570	.41210	.36660	.08730	.03820	.04820	.86510	.16390	1.85800	.59220
.811	24.550	.79790	.45570	.40640	.08300	.03100	.05100	.91510	.16370	1.75100	.56740
.996	26.530	.76670	.47240	.42260	.07940	.02370	.05370	.99870	.22440	1.62700	.57070
GRADIENT		.04791	-.00356	.00391	-.00017	-.00010	.00700	.04969	-.00212	.33607	.07060

RUN NO. 104/ 0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.803	-2.045	-.37350	.16130	.11640	.14790	.10300	.04410	-.37910	.20840	-2.31500	.65680
.900	.066	-.24760	.14390	.10170	.14420	.10210	.04220	-.24730	.16860	-1.72100	.93260
.900	2.255	-.11960	.13690	.09870	.14110	.10250	.03630	-.11410	.16900	-.07590	1.16970
.901	4.364	.02310	.14520	.10140	.14300	.09910	.04300	.03410	.14630	.15910	-.69560
.901	6.444	.15290	.15820	.11390	.14010	.09540	.04330	.16970	.12680	.96630	.36860
.901	8.579	.27030	.16660	.14260	.14420	.09970	.04330	.29510	.11440	1.44600	.92130
.901	10.690	.36310	.15660	.17190	.14080	.09630	.04310	.41650	.09580	1.77700	.57790
.906	12.660	.46670	.20200	.21260	.14660	.09810	.05000	.53240	.09010	1.65600	.59940
.902	14.650	.53030	.26510	.29550	.14550	.09550	.04270	.56560	.09600	1.66000	.60140
.902	16.890	.62970	.34270	.37350	.15110	.09360	.04780	.70200	.09500	1.63600	.61160
.904	18.890	.70750	.40170	.42670	.15300	.09350	.05560	.79940	.10260	1.67000	.60960
.904	21.030	.76550	.45630	.48260	.15300	.09350	.05560	.89900	.12400	1.67000	.601200
.903	23.070	.80160	.51460	.44810	.15920	.08720	.07070	.93920	.15240	1.59800	.56680
.903	25.020	.80780	.55750	.46650	.16340	.08720	.07620	.96770	.19420	1.45000	.56670
.903	27.160	.84390	.61320	.54060	.16030	.07870	.08140	1.03100	.20650	1.37670	.56770
GRADIENT		.06145	-.00260	-.00227	-.00085	-.00010	-.00034	.06401	-.00932	.36551	-.25855

TABULATED SOURCE DATA ANES 66-706 (0443)

(R01024) (29 JUN 73)

ANES 66-706 0443 B10 C5 D7 H0 P4 W01E10 VSR3

REFERENCE DATA

SREF = 2990.0000 84.0 FT. XMRP = 1074.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 934.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOONK = 24.900
 BOOPLP = -14.800 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 114/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.998	-2.131	-1.0200	.07040	.03200	.06650	.02810	.03720	-1.0450	.02800	-1.44900	.74910
.999	.029	-.00260	.06790	.03030	.06790	.03030	.03670	-.00280	.02320	-.04110	3.91900
.996	2.064	.06690	.06820	.03320	.06600	.03000	.03580	.08940	.02650	1.23700	.55410
.801	4.171	.19130	.07520	.03920	.06110	.02500	.03580	.19620	.02250	2.54200	.61910
.801	6.149	.29210	.06460	.04900	.05280	.01760	.03470	.29940	.01980	3.45200	.63640
.801	8.210	.39720	.10200	.06600	.04430	.00790	.03540	.40770	.01730	3.89200	.64490
.801	10.310	.50500	.14170	.10450	.04900	.01120	.03720	.52220	.01070	3.56400	.65270
.801	12.390	.59450	.18610	.14790	.05470	.01560	.03840	.62050	.00770	3.19500	.65360
.800	14.400	.66090	.23680	.19650	.06000	.01890	.04070	.71840	.00360	2.87600	.65810
.999	16.360	.76980	.29760	.25520	.06310	.01960	.04360	.84170	-.00060	2.65400	.66360
.803	18.480	.90080	.36600	.32210	.06180	.01900	.04550	.97030	-.01590	2.48100	.66390
.802	20.530	.96590	.43180	.38710	.05860	.01100	.04710	1.07500	-.01190	2.28300	.65820
.996	22.790	1.04600	.50250	.45210	.05680	.00420	.05300	1.15900	.00590	2.08300	.64240
.800	24.960	1.00900	.52090	.46540	.05420	-.00690	.06120	1.13400	.05590	1.93600	.62290
.802	26.290	.91190	.52670	.46210	.06280	-.00950	.07140	1.05100	.10920	1.73100	.60377
		.04630	.00074	.00116	-.00086	-.00046	-.00028	.04748	-.00044		-.17296

GRADIENT

RUN NO. 111/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.700	-1.999	-.06640	.06950	.03190	.06610	.02850	.03700	-.09870	.02870	-1.38600	.76400
.701	-.014	-.00190	.06630	.03140	.06630	.03140	.03600	-.00200	.02690	-.02840	3.50000
.896	2.216	.06610	.06680	.03420	.06460	.03040	.03430	.09870	.02680	1.40200	.55640
.701	4.236	.20010	.07640	.03940	.06140	.02430	.03670	.20520	.02490	2.62100	.61680
.701	6.276	.31050	.06760	.05160	.05310	.01710	.03530	.31620	.01960	3.54600	.63600
.700	8.322	.41850	.11420	.07750	.05290	.01530	.03670	.43080	.01500	3.68300	.64750
.899	10.410	.50170	.15390	.11630	.06070	.02240	.03760	.52130	.01130	3.25900	.65230
.899	12.420	.56960	.19490	.13580	.06360	.02350	.03960	.61740	.00920	3.02200	.63460
.899	14.500	.60950	.24980	.20790	.07120	.02810	.04240	.72130	-.00040	2.72700	.64020
.701	16.640	.79410	.31290	.26960	.07240	.02710	.04490	.85050	-.00060	2.53800	.64330
.701	18.630	.87790	.37220	.32820	.07220	.02580	.04670	.95080	-.00040	2.35900	.64310
.899	20.630	.93240	.42750	.38160	.07160	.02250	.04830	1.02300	.00400	2.18100	.63660
.700	22.690	.97490	.48170	.43370	.06840	.01310	.05610	1.06500	.03060	2.02400	.64990
.898	24.680	.90350	.49570	.43220	.06990	.00330	.06990	1.02800	.09110	1.82300	.62830
.701	26.690	.68950	.53690	.46480	.08030	-.00050	.07960	1.03600	.11710	1.65700	.61960
		.04713	.00100	.00121	-.00065	-.00013	-.00032	.04832	-.00045	.64220	-.27839

DATE 28 SEP 73

TABULATED SOURCE DATA AVES 66-706 (0463)

PAGE 39

AVES 66-706 0463 B10 C5 07 MS F4 M07E139 V0K5

(081024) (29 JUN 73)

REFERENCE DATA

SREF = 2000.0000 34. FT. XREF = 1076.4800 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 24.900
 BODYLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 110/ 0 RNVL = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.802	-1.939	.09920	.07820	.03520	.06820	.03180	.03880	-.10180	.03230	-1.34500	.77390
.801	.132	.09900	.07500	.03580	.07500	.03550	.05480	.00820	.02920	.08290	-1.08600
.800	2.291	.10910	.07590	.03770	.06970	.03340	.03590	.10790	.03100	1.42100	.53730
.800	4.346	.22110	.08220	.04710	.06520	.03000	.03520	.22670	.02240	2.69000	.62470
.802	6.433	.32180	.13410	.06830	.06740	.03140	.03590	.33190	.01680	3.09300	.64180
.802	8.472	.40470	.13250	.09790	.07140	.03580	.03530	.41960	.01520	3.05400	.64700
.800	10.570	.49640	.16970	.13200	.07540	.03700	.03620	.52100	.01020	2.93700	.65300
.799	12.580	.58040	.21030	.17210	.07900	.03590	.03920	.61230	.00870	2.76000	.65490
.801	14.630	.66580	.26490	.22400	.08800	.04570	.04210	.71090	.00030	2.51300	.65990
.799	16.780	.76990	.32330	.28130	.09950	.04250	.04660	.83100	-.00480	2.38700	.66210
.797	18.740	.84190	.38130	.33500	.09080	.03930	.05020	.91980	.00170	2.20800	.65930
.800	20.790	.90380	.43860	.38840	.08310	.03620	.05410	1.00000	.01240	2.05900	.65580
.805	22.790	.96290	.49420	.43480	.09590	.03160	.06310	1.04700	.05060	1.87900	.64270
.799	24.810	.97950	.51800	.44620	.10100	.02190	.07880	1.01300	.10190	1.69800	.62410
.801	26.900	.90850	.57530	.49930	.10290	.01770	.08490	1.06900	.11180	1.57600	.62260
GRADIENT		.09043	.00141	.00179	-.00073	-.00035	-.00047	.05169	-.00132	.64257	.03591

RUN NO. 109/ 0 RNVL = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.847	-1.822	-.09810	.07810	.03990	.07500	.03680	.03830	-.09450	.03360	-1.23000	.78210
.846	.140	.00680	.07750	.03970	.07750	.03970	.03720	.00900	.02820	.11360	-.46180
.853	2.290	.10910	.08200	.04760	.07750	.04330	.03430	.11230	.02730	1.33100	.57310
.853	4.439	.21760	.09370	.05850	.07680	.04120	.03530	.22440	.02440	2.32300	.62110
.852	6.470	.31120	.11350	.07810	.07770	.04210	.03580	.32200	.02130	2.74200	.63570
.852	8.536	.40030	.14430	.10780	.08330	.04640	.03660	.41720	.01970	2.77400	.64580
.851	10.630	.49220	.18040	.14140	.09640	.04680	.03680	.51700	.01270	2.72900	.65120
.849	12.680	.57510	.22300	.18280	.09190	.05080	.04140	.60990	.00730	2.58000	.65570
.851	14.730	.66980	.27590	.23400	.09680	.05320	.04340	.71760	-.00270	2.42700	.66100
.852	16.810	.77320	.33850	.29310	.09680	.05240	.04750	.84900	-.00270	2.29000	.66310
.851	18.810	.84840	.39620	.34880	.10330	.05110	.05280	.93150	.00010	2.13100	.65990
.846	20.900	.91170	.46040	.40640	.10490	.04700	.05830	1.01670	.01290	1.98700	.65540
.846	22.910	.91480	.50310	.43740	.10740	.03600	.07080	1.03800	.05190	1.81800	.64210
.849	24.940	.90650	.54920	.47120	.11570	.02970	.08480	1.05400	.09140	1.65000	.62900
.851	27.000	.85500	.61760	.53800	.11670	.02746	.08810	1.13100	.09320	1.54800	.62990
GRADIENT		.04976	.00247	.00308	.00022	-.00079	-.00037	.05119	-.00135	.56678	.03050

TABULATED SOURCE DATA AYES 66-758 (0443)

AYES 66-706 0443 B10 C5 D7 M3 F4 W87E18 V8K3

(0810264) (29 JUN 73)

REFERENCE DATA

BASEP = 2990.0000 56.171. 1987P = 1076.4800 IN.
 LREF = 474.8000 IN. 1987P = .0000 IN.
 BREF = 936.6000 IN. 2987P = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOORR = 24.900
 BOOFUP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 113/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.898	-1.803	.06830	.05110	.06560	.04980	.03670	-.06120	.02260	-.06810	.76060	.76060
.898	.308	.02780	.05350	.06970	.05330	.03590	.02830	.01620	.30930	.42590	.42590
.903	2.402	.09660	.06120	.09100	.05650	.03490	.13080	.01690	1.31300	.61370	.61370
.900	4.475	.10800	.07450	.06970	.05670	.03360	.23840	.01540	2.13800	.63690	.63690
.903	6.511	.13110	.09580	.09230	.05680	.03510	.34710	.00790	2.55100	.65190	.65190
.905	8.542	.16250	.12500	.09650	.05680	.03720	.45140	-.00250	2.65800	.66190	.66190
.904	10.740	.20200	.16180	.10020	.05930	.04040	.55600	-.00840	2.61200	.66340	.66340
.902	12.720	.24370	.20260	.10680	.05970	.04170	.65550	-.01830	2.53200	.67000	.67000
.896	14.810	.29980	.25380	.10680	.05950	.04690	.76800	-.02450	2.38700	.67140	.67140
.899	16.920	.36350	.31490	.11190	.06110	.05120	.86110	-.02560	2.22900	.67040	.67040
.901	18.890	.42360	.37050	.12030	.06330	.05690	.96830	-.01910	2.07400	.66710	.66710
.899	21.000	.48980	.42940	.12760	.06420	.06420	1.05300	-.01270	1.91900	.66090	.66090
.907	23.030	.55450	.48210	.12670	.04600	.07810	1.11900	.01320	1.76800	.65380	.65380
.902	25.010	.60930	.50840	.12780	.03970	.08790	1.12000	.06330	1.63000	.63960	.63960
.902	27.080	.66930	.58530	.12780	.03340	.09400	1.22000	.06360	1.53900	.64130	.64130
GRADIENT		.00313	.00375	.00062	.00122	-.00046	.05070	-.00112	.46164		-.00911

RUN NO. 106/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.898	-1.781	.06880	.05120	.06670	.11090	.06470	.04610	-.06600	.01430	-.35410	.73740
.898	.342	.05770	.06710	.06710	.10830	.06680	.04380	.03640	.00080	.53120	.65890
.908	2.504	.17850	.11320	.07360	.10950	.06570	.03940	.16320	-.01650	1.37600	.69220
.908	4.606	.28240	.12930	.08930	.10540	.06520	.04090	.30190	-.02520	2.26200	.68960
.909	6.510	.39100	.14960	.10370	.10430	.05610	.04680	.40550	.03260	2.81400	.68860
.902	8.647	.49730	.19000	.14270	.11310	.06450	.04800	.52150	-.03920	2.81800	.68890
.909	10.770	.59360	.22920	.16060	.11420	.06470	.04970	.62620	-.04490	2.59100	.68580
.908	12.810	.68270	.27800	.18060	.11970	.06520	.05410	.72740	-.04800	2.45600	.68390
.900	14.790	.78080	.33440	.26140	.12400	.06930	.05480	.84030	-.05990	2.33500	.68390
.900	16.950	.90830	.41560	.35630	.13270	.07070	.06200	.99000	-.06140	2.18500	.68940
.909	19.020	1.00300	.48630	.42240	.13490	.06310	.07000	1.10700	-.06730	2.03300	.68820
.909	21.060	1.05400	.54700	.47110	.13690	.05760	.06080	1.16200	-.05570	1.89000	.67830
.907	23.140	1.04100	.59970	.52070	.14220	.05630	.06590	1.19300	-.02140	1.73700	.66640
.900	25.220	1.09000	.67590	.58620	.14720	.04810	.09680	1.27400	.00290	1.61200	.65920
.902	27.230	1.11800	.74270	.64840	.14980	.04370	.10660	1.32000	.01900	1.50200	.65490
GRADIENT		.05560	.00251	.00346	-.00092	.00002	-.00093	.03760	-.00634	.44522	-.00512

100-10241 (29 JUN 73)

INDEX 66-706 0A43 B10 C5 67 A3 P4 W07E10 V0015

REFERENCE DATA

5467 = 2900,0000 30.67.
 5467 = 474,0000 IN.
 5467 = 934,0000 IN.
 SCALE = .0150 SCALE
 1000 = 1070,4000 IN.
 1000 = .0000 IN.
 2000 = 400,0000 IN.

PARAMETRIC DATA

DELTA =	.000	ELEVON =	.000
WALLPJM =	.000	SPORNA =	24.900
SCORLP =	-14.200	FLUGER =	.000
WALL =	.000	ELVH-2 =	.000

[illegible]

WAGON	ALPHA	CL	CD	COF	CA	CAF	CAB	C4	QLM	L70	KCP/L
1.999	-1.490	-0.0630	.12780	.09410	.12680	.09300	.03380	-.04180	-.01430	-.30140	.33770
2.000	.646	.03640	.12360	.09940	.12340	.06900	.03900	.03970	-.02500	.30970	.60500
2.001	2.736	.11800	.12360	.09410	.12210	.06680	.03310	.11750	-.03400	.87430	.76330
2.002	2.736	.11800	.12360	.09410	.12210	.06680	.03310	.11750	-.03400	1.35400	.75950
2.003	4.907	.10520	.13460	.10310	.12040	.06670	.03340	.19620	-.04300	1.35400	.75950
2.004	6.982	.23190	.14890	.11480	.11760	.06310	.03480	.26790	-.03090	1.69100	.72790
2.005	8.917	.31920	.16910	.13450	.11750	.06250	.03460	.34180	-.03590	1.69800	.71650
2.006	9.917	.39020	.19750	.16250	.11900	.06330	.03330	.42090	-.06150	1.97600	.71220
2.007	13.010	.39020	.19750	.16250	.11900	.06330	.03330	.42090	-.06150	1.97600	.71220
2.008	13.010	.43470	.22790	.19300	.11970	.06390	.03360	.49430	-.07000	1.99500	.70720
2.009	15.070	.52550	.26230	.22620	.11740	.06180	.03330	.57370	-.07300	1.96200	.70360
2.010	15.070	.52550	.26230	.22620	.11740	.06180	.03330	.57370	-.07300	1.96200	.69960
2.011	17.230	.59590	.30380	.27360	.11360	.07890	.03450	.65910	-.07300	1.90300	.69660
2.012	19.180	.66430	.34920	.31680	.11150	.07720	.03420	.74220	-.07690	1.81300	.69400
2.013	21.280	.73210	.40380	.37090	.10920	.07520	.03320	.82870	-.08180	1.72200	.69190
2.014	23.390	.79790	.45310	.43100	.10590	.07380	.03320	.91620	-.08450	1.63500	.68990
2.015	25.430	.86660	.53010	.49710	.10660	.07010	.03620	1.01000	-.08450	1.54300	.68660
2.016	27.580	.93060	.60330	.56970	.10420	.06550	.03620	1.10400	-.08820	1.40400	.68660
2.017	27.580	.93060	.60330	.56970	.10420	.06550	.03620	1.10400	-.08820	1.40400	.68660
2.018	29.720	.99497	.67015	.60149	-.00796	-.00791	-.00001	.03721	-.00455	.25982	.02274

DATE 28 SEP 75

TABULATED SOURCE DATA AXES 86-706 (0443)

AXES 86-706 0443 810 C5 D7 N3 PA WAVE18 VRS 114

(NOTES) (29 JUN 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLUM = .000 SPORRK = 84.900
 BODFLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SRCP = 2880.0000 SQ.FT. XRRP = 1076.4800 IN.
 LRRP = 474.8000 IN. YRRP = .0000 IN.
 BRCP = 936.8000 IN. ZRRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 118/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	XCP/L
.801	-2.135	-.10030	.06640	.03430	.06480	.03030	.03470	-.10280	.02330	-1.46800	.74610
.801	-.039	-.00500	.06670	.03220	.06670	.03220	.03420	-.00500	.02470	-.07430	2.42400
.802	2.003	.06990	.06690	.03350	.06560	.03030	.03500	.09230	.02400	1.30400	.56710
.802	4.062	.18640	.07580	.03660	.06040	.02510	.03460	.19120	.02060	2.52800	.62150
.800	6.189	.29690	.08430	.04960	.05180	.01890	.03440	.30420	.01970	3.52100	.63770
.801	8.194	.39870	.10140	.06610	.04360	.00790	.03490	.40910	.01700	3.93100	.64520
.800	10.240	.50350	.13730	.10230	.04550	.00990	.03520	.52030	.01180	3.67100	.65190
.800	12.250	.59240	.18070	.14530	.05090	.01460	.03600	.61730	.00910	3.27800	.65470
.800	14.340	.66790	.23430	.19670	.05660	.01710	.03680	.72450	.00350	2.93600	.65630
.802	16.390	.77400	.28980	.25090	.05970	.01920	.04030	.82430	-.00140	2.67000	.66080
.801	18.440	.86240	.35330	.31460	.05790	.01500	.04280	.94950	-.00940	2.48300	.66350
.801	20.490	.97860	.42690	.38350	.05720	.01090	.04630	1.06600	-.00640	2.29300	.66210
.802	22.530	1.02870	.46660	.44080	.05570	.00620	.04940	1.13670	.01030	2.11200	.65670
.801	24.540	1.01300	.52090	.46640	.05330	-.00660	.06010	1.13770	.00930	1.94400	.64140
.801	26.540	.91480	.52730	.46160	.06290	-.01050	.07210	1.05400	.11130	1.73500	.62220
GRADIENT	.04626	.00089	.00068	.00068	-.00265	-.00087	.00005	.04746	-.00072	.64725	-.10681

RUN NO. 117/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAP	CAB	CN	CLM	L/D	XCP/L
.901	-1.961	-.07760	.09310	.05260	.09160	.05000	.03960	-.00060	.01990	-.63310	.74840
.901	.273	.03940	.09250	.05360	.09240	.05360	.03640	.03980	.01080	.42540	.56340
.902	2.360	.09690	.09690	.05920	.09140	.03360	.03750	.13540	.01370	1.35800	.62380
.903	4.404	.24180	.11060	.07540	.09170	.05640	.03540	.24950	.00980	2.18600	.64590
.904	6.340	.34570	.13370	.09590	.09340	.05540	.03780	.35870	.00360	2.38600	.65640
.900	8.556	.42440	.15940	.12250	.09450	.05720	.03700	.44340	.00180	2.66200	.65690
.903	10.590	.52690	.19920	.16020	.09900	.05930	.03920	.55450	-.01090	2.84500	.66700
.900	12.670	.61880	.24230	.20110	.10070	.05850	.04230	.63690	-.01720	2.53400	.66930
.902	14.760	.71840	.29990	.25440	.10690	.05990	.04670	.77110	-.02310	2.39600	.67160
.901	16.860	.82420	.36910	.32030	.11390	.06310	.05790	.89580	-.02860	2.23300	.67000
.901	18.900	.92660	.43660	.38320	.11940	.06300	.06450	.99920	-.00680	1.92700	.66230
.902	20.990	.97660	.49420	.43480	.12030	.05660	.06490	1.06600	-.01860	1.77200	.65400
.903	22.960	.97660	.55140	.47810	.12640	.04680	.07970	1.11500	.01860	1.62900	.64120
.903	25.080	.97240	.59690	.51600	.12960	.04030	.08680	1.13400	.05960	1.52600	.64120
.901	27.070	1.02300	.67080	.58450	.13150	.03470	.09610	1.21700	.06400	1.32600	.64120
GRADIENT	.05030	.00271	.00342	.00342	.00011	.00083	-.00055	.05200	-.00132	.47679	-.01205

AXES 86-706 0443 B10 C5 D7 H3 F4 H07E10 V5R5 X15

(08T026) (29 JUN 73)

REFERENCE DATA

SACF = 2690.0000 32.47. XRRP = 1076.4800 IN.
 LRRP = 474.8000 IN. YRRP = .0000 IN.
 SRRP = 934.8000 IN. ZRRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPDRK = 24.900
 BOOPLP = -14.200 RUDDER = .000
 ELWHL = .000 ELVHL = .000

RUN NO. 121/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.599	-2.003	-.09480	.06990	.03330	.06640	.03000	.03580	-.09730	.02250	-1.35700	.74270
.601	-.038	.00000	.06870	.03320	.06870	.03000	.03500	-.00010	.02170	-.00020	134.80000
.601	2.045	.09080	.06980	.03430	.06650	.03100	.03480	.09300	.02060	1.25800	.58080
.601	4.057	.19190	.07470	.03840	.06090	.02560	.03480	.19630	.01750	2.56500	.62820
.600	6.192	.29710	.08580	.05150	.05330	.01880	.03370	.30460	.01590	3.46100	.64130
.600	8.164	.40030	.10140	.06780	.04360	.00940	.03410	.41060	.01490	3.94800	.64700
.599	10.240	.50430	.13830	.10210	.04650	.00970	.03600	.52090	.00760	3.64600	.65470
.601	12.280	.59350	.18190	.14720	.05180	.01620	.03550	.61860	.00750	3.28270	.65360
.601	14.340	.66930	.23490	.19790	.05680	.01860	.03830	.72600	.00010	2.93400	.65990
.601	16.440	.78150	.29360	.25450	.06040	.01960	.04080	.83270	-.00440	2.66200	.66190
.599	18.410	.88520	.35630	.31580	.05900	.01580	.04300	.95280	-.01080	2.48100	.66400
.598	20.500	.97940	.42700	.38380	.05700	.01080	.04580	1.06700	-.00940	2.29400	.66310
.599	22.580	1.03500	.49180	.44540	.05620	.00700	.04940	1.14400	.00620	2.10800	.65800
.598	24.520	1.01700	.52310	.46940	.05380	-.00530	.05930	1.14200	.05330	1.91400	.64330
.600	26.520	.91560	.52700	.48130	.06270	-.01060	.07230	1.05500	.10350	1.73700	.62420
GRADIENT		.04630	.00075	.00091	-.00091	-.00075	-.00018	.04749	-.00076	.63719	-6.61376

RUN NO. 122/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.703	-2.002	-.09680	.07030	.03630	.07000	.03290	.03570	-.09930	.02350	-1.31800	.75190
.701	.066	.00180	.07030	.03600	.07030	.03600	.03420	.00190	.02460	.02560	-4.00190
.702	2.210	.10220	.07240	.03720	.06840	.03320	.03430	.10500	.02140	1.41800	.58700
.703	4.210	.20620	.07820	.04330	.06290	.02790	.03450	.21140	.01730	2.63500	.63040
.701	6.356	.31900	.09090	.05720	.05300	.02110	.03560	.32710	.01470	3.31070	.64400
.702	8.341	.41910	.11520	.08130	.05310	.01890	.03400	.43140	.01930	3.63900	.65220
.701	10.420	.50900	.15480	.11950	.06100	.02500	.03590	.52470	.00780	3.28100	.65470
.701	12.390	.59000	.19410	.16070	.06290	.02800	.03570	.61790	.00660	3.04000	.65620
.700	14.350	.67740	.24720	.20910	.06510	.02980	.03990	.71780	.00080	2.74000	.65960
.700	16.370	.77770	.30360	.26620	.07100	.03000	.04150	.83280	-.00610	2.54500	.66260
.700	18.590	.87020	.36780	.32630	.07120	.02740	.04410	.94210	-.00360	2.36600	.66210
.700	20.640	.94190	.42960	.38470	.07000	.02200	.04790	1.03300	.00180	2.19200	.65940
.700	22.700	.96510	.48500	.43510	.06730	.01320	.05460	1.09600	.02990	2.03100	.65020
.701	24.680	.90910	.49970	.43490	.07490	.00350	.07030	1.03500	.09140	1.81900	.62840
.704	26.640	.86210	.53340	.46530	.08120	.00530	.07550	1.02800	.11420	1.65400	.62020
GRADIENT		.04856	.00078	.00106	-.00112	-.00085	-.00014	.04960	-.00131	.63750	.201675

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0A43)

PAGE 65

AMES 66-706 0A43 810 C5 07 M3 P4 W07E18 V38S X15

(29 JUN 73)

REFERENCE DATA

SREF = 2690.0000 94.00 FT. XREF = 1076.4900 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6600 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPOBRK = 24.900
 RODRUP = -14.200 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

RUN NO. 123/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.801	-1.978	-.10390	.07590	.03790	.07190	.03430	.03780	-.10810	.03070	-1.37100	.76340
.801	.290	.00780	.07320	.03600	.07320	.03690	.03420	.00790	.02610	.10410	-.51570
.802	2.246	.10630	.07480	.04140	.07050	.03700	.03420	.11120	.02300	1.44700	.56610
.799	4.392	.22430	.08380	.05000	.06820	.03250	.03340	.23010	.01690	2.69400	.83380
.799	6.439	.33050	.10340	.07020	.06370	.03220	.03370	.34000	.01060	3.19600	.64080
.801	8.476	.40370	.13280	.09620	.07160	.03680	.03460	.41860	.01240	5.04500	.64940
.800	10.590	.49750	.16950	.13370	.07520	.03680	.03620	.52010	.00860	2.93600	.65410
.799	12.580	.57960	.20940	.17260	.07830	.04060	.03600	.61150	.00690	2.76900	.65000
.799	14.720	.67130	.26520	.22550	.08240	.04370	.04480	.71680	.00010	2.53100	.64000
.801	16.780	.77040	.32340	.28150	.08740	.04310	.04400	.83090	-.00170	2.36200	.64240
.798	18.730	.84490	.38040	.33690	.08970	.03830	.04280	.92230	.01170	2.22100	.64070
.800	20.600	.91270	.44430	.39450	.09180	.03630	.04200	1.01000	.01370	2.05300	.63590
.799	22.810	.97780	.48180	.42230	.09230	.02770	.04090	1.02400	-.03670	1.86400	.64020
.801	24.800	.97680	.52010	.44760	.10360	.02380	.03940	1.01600	.09610	1.64900	.62350
.800	26.800	.92850	.57420	.49760	.10560	.01980	.03820	1.06400	.10640	1.57200	.62420
GRADIENT	.05124	.00122	.00163	.00163	-.02793	-.00033	-.00035	.05266	-.00211	.64000	.02959

RUN NO. 124/ 0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.852	-1.649	-.09790	.06020	.04200	.07700	.03880	.03750	-.10740	.03170	-1.22100	.77270
.652	.242	.01310	.07910	.04310	.07910	.04300	.03590	.01540	.02460	.19090	.09140
.852	2.342	.12270	.06410	.04960	.07900	.04450	.03480	.12600	.01950	1.45800	.80480
.852	4.436	.22800	.09690	.06120	.07910	.04340	.03580	.23280	.01800	2.53200	.83240
.848	6.490	.31690	.11460	.07930	.07810	.04250	.03840	.32790	.01670	2.76300	.64180
.849	8.549	.40360	.14490	.10790	.08330	.04590	.03710	.42170	.01590	2.78400	.64850
.851	10.540	.48860	.17940	.14150	.08700	.04850	.03840	.51320	.01150	2.72400	.65200
.851	12.640	.57990	.22510	.18450	.09290	.05130	.04120	.61450	.00320	2.57400	.65810
.850	14.720	.67580	.27620	.23470	.09590	.05190	.04400	.72560	-.00310	2.44600	.66150
.848	16.860	.78110	.34120	.29700	.09990	.05340	.04660	.84630	-.001670	2.39000	.66360
.851	18.790	.85090	.40280	.35130	.10460	.05020	.04590	.94290	-.001290	2.13300	.66110
.851	20.680	.92220	.46620	.41250	.10690	.04950	.03860	1.02800	.01120	1.97800	.65610
.849	22.940	.91240	.50530	.43980	.10970	.03460	.03660	1.03700	.05340	1.80600	.64160
.851	24.900	.91270	.53190	.47410	.11630	.03040	.04510	1.06000	.06300	1.65400	.63130
.851	27.000	.96240	.62250	.54310	.11770	.02660	.04890	1.14000	.09130	1.54600	.63160
GRADIENT	.05150	.00263	.00306	.00306	-.00050	.00073	-.00030	.03294	-.00220	.56911	.00450

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 B10 C5 D7 NS F4 W07E18 V5R5 X15

(HISTORE) (29 JUN 73)

REFERENCE DATA

WREF = 2980.0000 36. FT. WREF = 1076.4000 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 934.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATTURC = .000 SPOBRK = 24.900
 BODYLP = -14.200 RUDDER = .000
 ELWHL = .000 ELWHLR = .000

RUN NO. 120/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.800	-1.806	-.07370	.09480	.03620	.09240	.03360	.03900	-.07870	.01700	-.77780	.73940
.800	.251	.03790	.09020	.03320	.09000	.03300	.03670	.03690	.01010	.42040	.56800
.808	2.348	.13140	.09720	.06100	.09160	.03550	.03560	.13530	.01160	1.35100	.62940
.902	4.423	.23610	.11080	.07220	.08210	.03340	.03640	.24590	.00910	2.14800	.64680
.896	6.525	.32390	.12910	.09280	.09140	.03470	.03620	.33650	.01250	2.30900	.64670
.902	8.574	.44290	.16510	.12700	.09720	.03670	.03670	.46250	-.00700	2.64300	.66540
.904	10.610	.52870	.19350	.15960	.09870	.03810	.04020	.55640	-.01390	2.65000	.66900
.900	12.680	.62310	.24430	.20220	.10180	.03840	.04300	.66150	-.02250	2.35000	.67220
.898	14.760	.72290	.30290	.25630	.10680	.03860	.04740	.77620	-.02890	2.38600	.67330
.902	16.850	.82620	.36930	.31700	.11410	.03970	.05360	.89790	-.03390	2.23600	.67350
.900	18.950	.94690	.42680	.37300	.11650	.03960	.05660	.97990	-.02420	2.08500	.65440
.899	20.990	.94690	.49050	.43160	.11980	.03960	.06370	1.05900	-.03910	1.93000	.66310
.897	22.930	.93440	.52770	.45750	.12190	.04580	.06700	1.06600	.03750	1.77100	.64740
.899	24.990	.96120	.58670	.47910	.12690	.03980	.06710	1.12000	.06130	1.63500	.64040
.899	27.040	1.01700	.66390	.57910	.12900	.03370	.09450	1.20600	.06340	1.53200	.64120
GRADIENT		.04950	.00265	.00269	.00004	.00006	-.00013	.05123	-.00107	.46700	-.01024

RUN NO. 125/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.849	-1.767	-.08090	.10890	.06860	.10690	.06650	.04090	-.06720	.01300	-.58630	.72940
.933	.272	.03240	.11670	.06970	.11640	.06940	.04670	.03000	-.00010	.44920	.66090
.943	2.497	.16310	.10610	.07200	.09890	.06470	.03450	.16780	-.00700	1.53700	.67500
.943	4.522	.29590	.13110	.08770	.10740	.06360	.04390	.30520	-.02730	2.25600	.69210
.931	6.625	.40540	.15570	.10970	.10790	.06160	.04610	.42070	-.03970	2.80300	.69310
.931	8.633	.50100	.18930	.14220	.11180	.06410	.04780	.52380	-.04150	2.64600	.68830
.930	10.630	.59210	.23230	.18220	.11720	.06630	.05010	.62510	-.04400	2.54900	.66510
.932	12.750	.69370	.26580	.23050	.12570	.06890	.05530	.73970	-.05480	2.42700	.66650
.934	13.820	.75900	.32650	.26400	.13580	.07140	.06390	.81510	-.06420	2.32500	.66820
.949	14.930	.80370	.34600	.29160	.12670	.06470	.05650	.86760	-.06730	2.32900	.66770
.949	16.940	.91090	.41570	.35110	.13240	.06470	.06660	.99290	-.06390	2.19100	.69720
.932	19.000	.99040	.48130	.41220	.13270	.05960	.07190	1.09300	-.08560	2.03600	.68800
.949	21.070	1.03500	.54970	.47560	.14080	.06140	.07860	1.16400	-.06390	1.88300	.67960
.932	23.290	1.08500	.62750	.54190	.14730	.05420	.09210	1.24500	-.03840	1.72900	.67100
.931	25.120	1.09000	.65040	.56320	.14310	.04580	.09710	1.22700	.00970	1.61500	.65720
.932	27.200	1.13600	.75960	.66070	.15560	.04420	.11060	1.36000	.07640	1.49600	.65760
GRADIENT		.09636	.00260	.00261	-.00080	-.00062	-.00019	.05835	-.00604	.45610	-.00459

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 86-706 (0443)

(887086) (29 JUN 73)

AMEL 86-706 0443 810 CS D7 MS P4 W07E10 V028 X15

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALPHA = .000 SPDRAR = 84.000
 BOSLP = -14.800 NUMBER = .000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

MAEP = 2990.0000 94.FT. 1000 = 1078.4000 IN.
 LMEP = 474.8000 IN. 1000 = .0000 IN.
 DMEP = 936.6000 IN. 1000 = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 119/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	CL	CD	CDP	CA	CVP	CAB	CN	CLM	L/D	KCP/L
1.196	-1.815	-0.0940	.14390	.09190	.14200	.06990	.05140	-.06390	.01670	-.41270	.75390
1.203	.310	.05830	.14460	.09460	.14420	.09430	.04930	.05910	-.00460	.40330	.66600
1.202	2.474	.17790	.15300	.10270	.14310	.08490	.04970	.18440	-.02850	1.16300	.71530
1.202	4.539	.26830	.16820	.11910	.14490	.09360	.04890	.30070	-.04680	1.71400	.71560
1.201	6.615	.39230	.19110	.14110	.14470	.09430	.05010	.41170	-.05720	2.05300	.70960
1.201	8.664	.48240	.21970	.16740	.14450	.09160	.05260	.50990	-.06210	2.19600	.70350
1.196	10.810	.59130	.26170	.20710	.14920	.09050	.05540	.74540	-.07590	2.26000	.70310
1.200	12.630	.69370	.31100	.25340	.14920	.09010	.05660	.87030	-.08630	2.23100	.70170
1.202	14.950	.80200	.37020	.31290	.15070	.09140	.05690	.97970	-.10160	2.16600	.69940
1.197	17.020	.89220	.43260	.37270	.15240	.08980	.06190	1.04500	-.10800	2.06300	.69720
1.199	19.110	.97450	.50310	.43760	.15340	.08730	.06310	1.08500	-.11290	1.94900	.69230
1.199	21.160	1.03200	.55610	.49270	.14570	.07770	.06640	1.16300	-.10310	1.85600	.68040
1.200	23.210	1.04200	.59650	.53580	.13780	.07180	.06500	1.19200	-.06810	1.74600	.66740
1.200	25.300	1.04100	.64200	.57960	.13550	.06650	.06800	1.21500	-.02310	1.62200	.66340
1.200	27.320	1.09700	.70980	.64890	.12710	.05850	.06800	1.30100	-.01960	1.54600	.66340
1.190	GRADIENT	.05478	.00382	.00422	.00045	.00084	-.00033	.03744	-.01010	.33656	-.00006

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 00-708 (0443)

(INST027) (29 JUN 73)

AMES 00-708 0443 BID C5 D7 WD P4 W08018 YHRS

REFERENCE DATA

SREF = 2090.0000 50. FT. XMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPOBRK = 84.970
 BOOPLP = -14.200 RLODER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 120/ 0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.998	-2.194	-1.15030	.09540	.05080	.08930	.04470	.04340	-.16180	.04910	-1.65900	.76850
.999	-2.180	-1.06670	.09090	.04750	.09290	.04750	.04280	-.06680	.03360	-.73350	.94870
.802	2.024	.02550	.09030	.04700	.08930	.04600	.04290	.02880	.03330	.28210	-.00500
.999	4.089	.12520	.09360	.05240	.08450	.04320	.04070	.13190	.03180	1.33700	.91920
.999	6.123	.24150	.10790	.08500	.08180	.03840	.04230	.25160	.04600	2.23700	.59470
.800	8.130	.33720	.12950	.08750	.08070	.03810	.04150	.35210	.04670	2.60400	.81260
.801	10.260	.44720	.16790	.12020	.08020	.03720	.04220	.46930	.04220	2.75300	.82780
.999	12.260	.55980	.20100	.15790	.07760	.03550	.04350	.58950	.03620	2.76400	.83600
.998	14.430	.67990	.25570	.20950	.07820	.03030	.04680	.72250	.02750	2.85900	.84640
.801	16.450	.80840	.31650	.27090	.07470	.02710	.04660	.86490	.01330	2.55400	.85450
.997	18.560	.92960	.38730	.33750	.07120	.01870	.05080	1.00500	.00720	2.40000	.83700
.801	20.810	1.02900	.45950	.40660	.06690	.01140	.05390	1.12500	.00940	2.24500	.84450
.801	22.520	1.01900	.49360	.43910	.06750	.00830	.05840	1.12600	.04680	2.05800	.82590
.800	24.460	.90090	.49910	.43460	.06760	.01070	.06910	1.02700	.09780	1.80500	.81450
.801	26.370	.84280	.51460	.44800	.06520	.00870	.07340	.98400	.12530	1.63800	.81450
		.04515	-.00030	.00020	-.00076	-.00026	-.00040	.04671	.00036	.47909	-.06170

RUN NO. 127/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.199	-1.819	-1.19030	.16330	.11240	.15850	.10750	.05020	-.15540	.09950	-.92040	.68890
1.212	.271	-.02620	.15720	.10790	.15790	.10400	.04940	-.02540	.07300	-.16600	1.68800
1.202	2.487	.10860	.16280	.11310	.15800	.10620	.04940	.11560	.04170	.66710	.53110
1.200	4.448	.22460	.17570	.12570	.15780	.10760	.04990	.23780	.02000	1.27800	.62990
1.202	6.853	.34920	.19890	.14760	.15710	.10540	.05140	.36990	-.00430	1.75500	.66420
1.200	8.772	.46430	.25080	.17720	.15730	.10300	.05380	.49400	-.02280	2.01200	.67650
1.271	10.820	.57500	.27140	.21400	.15480	.10020	.05780	.61570	-.04500	2.11900	.68610
1.202	12.890	.69020	.32080	.26160	.15680	.09800	.05990	.74430	-.06320	2.13100	.69130
1.201	15.030	.79560	.37730	.31540	.15630	.09390	.06340	.86630	-.07970	2.10700	.69290
1.199	17.060	.89990	.43780	.37330	.15850	.09110	.06650	.97570	-.08960	2.02500	.69280
1.199	19.110	.99990	.50290	.43680	.15760	.08760	.06890	1.08100	-.09630	1.92900	.69160
1.199	21.240	1.02670	.57230	.50540	.15100	.07920	.07040	1.19100	-.10360	1.84400	.69170
1.198	23.300	1.04800	.61080	.54760	.14720	.07840	.06750	1.20200	-.10480	1.71200	.67440
1.198	25.290	1.04600	.65470	.59190	.14410	.07460	.06940	1.22800	-.01110	1.60100	.66470
1.199	27.410	1.09800	.71350	.65590	.12890	.06400	.06450	1.30100	-.00860	1.53600	.66180
		.05993	.00196	.00212	-.00009	.00003	-.00004	.06281	-.01265	.33373	-.09382

DATE 28 SEP 75

TABULATED SOURCE DATA ARES 66-706 (0443)

PAGE 09

ARES 66-706 0443 810 C5 D7 M4 W06C16 V5M5

(RST027) (29 JUN 75)

REFERENCE DATA

SREF = 2490.0000 54. FT. XREF = 1076.4800 IN.
 YREF = 474.8000 IN. YREF = .0000 IN.
 ZREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELEVON = .000
 ATILON = .000 SPORON = 54.900
 DODFLP = -14.200 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

PARAMETRIC DATA

RUN NO. 126/ 0 ROL = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	ON	GLN	L/D	KCP/L
1.995	-1.597	-.06050	.14090	.10660	.13660	.10510	.03330	-.06440	.02090	-.42940	.77560
2.004	.553	.01310	.13540	.10120	.13530	.10100	.07560	.01440	.1130	.09650	.37830
2.007	2.780	.09180	.13940	.10490	.13480	.10030	.03360	.09620	-.00080	.69720	.66230
2.007	4.918	.18560	.14600	.11140	.13130	.09650	.03430	.17770	-.01000	1.13600	.60000
2.007	6.879	.23320	.15630	.12360	.12920	.09430	.03430	.25050	-.01870	1.47400	.66870
2.008	8.933	.30340	.17690	.14140	.12770	.09170	.03550	.32720	-.02520	1.71500	.66780
2.009	11.010	.37140	.20290	.16690	.12620	.09150	.03630	.40330	-.03100	1.83100	.66750
2.009	13.030	.43950	.23410	.19720	.12600	.09090	.03780	.48100	-.03630	1.87700	.66700
2.000	15.110	.50630	.26740	.23050	.12620	.08970	.03800	.55930	-.04120	1.89300	.66640
2.000	17.040	.57000	.30310	.26770	.12280	.08570	.03690	.63360	-.04340	1.88000	.66450
1.999	19.240	.64400	.35040	.31640	.11860	.08260	.03300	.72350	-.04650	1.83600	.66290
1.999	21.270	.71360	.40150	.36830	.11530	.07970	.03560	.81070	-.05090	1.77700	.66240
2.000	23.320	.77660	.45960	.42540	.11360	.07670	.03680	.89710	-.05460	1.69500	.66170
1.999	25.400	.84300	.52060	.48640	.10780	.06960	.03760	.98760	-.05910	1.62400	.66140
1.997	27.590	.91330	.59350	.55940	.10290	.06450	.03810	1.06400	-.06310	1.53900	.66080
GRADIENT		.03479	.00069	.00079	-.00111	-.00121	.00315	.03721	-.00461	.24146	.00013

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(RST380) (29 JUN 73)

TABULATED SOURCE DATA AXES 66-708 (0443)
AXES 66-708 0443 B10 C3 D7 NS F4 W07218 V025 X15

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AIRLON = .000 SPOBRK = 24.900
SCORLP = -14.200 RUDDER = .000
ELVH-L = 10.000 ELVH-R = 10.000

REFERENCE DATA

SECF = 2990.0000 SA.FT. YMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 536.6000 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

RUN NO. 133/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.602	-2.031	.06390	.06430	.04340	.06950	.04850	.04120	.06070	-.07430	.96930	.98900
.602	.039	.18030	.09020	.04930	.06910	.04800	.04100	.18030	-.07590	1.99000	.81030
.601	2.067	.27680	.09630	.05690	.06820	.04670	.04080	.28230	-.07630	2.83800	.75690
.600	4.163	.46010	.10870	.06940	.06090	.04140	.03930	.38700	-.06800	3.49500	.73390
.599	6.174	.68080	.12440	.08590	.07200	.03320	.03680	.49110	-.06180	3.86400	.71940
.601	8.270	.94790	.14850	.11000	.08240	.02350	.01650	.60310	-.06270	3.98000	.70900
.601	10.310	.12200	.19120	.15240	.06430	.02490	.01970	.71310	-.06600	3.61900	.70400
.600	12.310	.24090	.24090	.20070	.07290	.03110	.0110	.79590	-.06320	3.16400	.69740
.598	14.360	.29630	.29630	.25530	.07830	.03410	.01410	.89340	-.06690	2.84300	.69550
.601	16.490	.35210	.35210	.32410	.08380	.03660	.01720	1.01800	-.10240	2.57600	.69800
.600	18.490	.43980	.43980	.39390	.08250	.03410	.01400	1.14000	-.10680	2.39800	.69340
.600	20.550	.55340	.55340	.45680	.08120	.02590	.012400	1.22400	-.09290	2.21000	.68710
.601	22.550	.69780	.69780	.5340	.07800	.01790	.00960	1.25900	-.09510	2.04000	.67680
.599	24.530	.8710	.8710	.6470	.08070	.01290	.00760	1.14100	-.02470	1.83600	.65220
.601	26.540	.96930	.96930	.7020	.08450	-.00020	.00250	1.12600	.03010	1.67500	.64410
GRADIENT		.04776	.00361	.00385	-.001134	-.00112	-.00729	.04939	-.00086	-.40707	-.03963

RUN NO. 132/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	KCP/L
.702	.094	.18420	.09230	.03110	.09200	.05080	.04170	.16430	-.07780	1.99500	.81100
.700	2.136	.28360	.10080	.03920	.09020	.04850	.04140	.28720	-.08150	2.81300	.78150
.701	4.232	.39170	.11240	.07390	.08310	.04450	.03650	.39690	-.08420	3.48500	.73540
.699	6.246	.50300	.13090	.09190	.07540	.03620	.03800	.51430	-.08950	3.84200	.72220
.699	8.359	.60660	.16280	.12310	.07270	.03280	.03980	.62400	-.09170	3.73200	.71750
.701	10.410	.66340	.20700	.16680	.08370	.04280	.04090	.68990	-.08340	3.20500	.70320
.701	12.420	.74580	.25250	.21000	.08630	.04280	.04890	.78200	-.08450	2.95100	.69930
.699	14.470	.83780	.31370	.26930	.09440	.04820	.04800	.88950	-.109780	2.67000	.69640
.701	16.590	.94810	.36240	.33520	.09600	.04680	.04800	1.01800	-.10370	2.47900	.69290
.700	18.590	1.07300	.43680	.38700	.09530	.04280	.05200	1.09000	-.09420	2.29600	.68900
.702	20.680	1.03800	.49310	.44010	.09530	.03670	.05830	1.14500	-.07200	2.10400	.68230
.701	22.650	1.03100	.52930	.46690	.09150	.02400	.06810	1.15500	-.02140	1.94700	.68860
.700	24.620	.93290	.54520	.46940	.09670	.01530	.08180	1.09500	.03550	1.74800	.64840
.701	26.720	.95130	.59050	.51320	.09970	.01320	.08370	1.11500	.05120	1.61100	.64380
GRADIENT		.04992	.00464	.00349	-.00215	-.00132	-.00077	.03162	-.00154	.33614	-.01815

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TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 810 C5 D7 H5 F4 W87E16 V9R5 X15

(RST088) (29 JUN 75)

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 SPDRK = 24.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

REFERENCE DATA

SRCP = 2890.0000 56.17. YMRP = 1076.4800 IN.
 LMRP = 474.8000 IN. YMRP = .0000 IN.
 SRCP = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 131/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.801	-1.868	.07880	.09330	.09040	.08580	.05290	.04380	.07810	-.07520	.64920	1.01300
.802	.245	.19010	.09930	.09310	.08650	.05430	.04330	.19050	-.08220	1.91300	.61430
.803	2.282	.29670	.10720	.06490	.09530	.05300	.04180	.30270	-.06880	2.78600	.76470
.799	4.365	.41750	.12370	.06280	.09140	.05020	.04100	.42570	-.09800	3.37400	.74080
.798	6.443	.51290	.15120	.10970	.09270	.05090	.04140	.52860	-.09790	3.39100	.72850
.800	8.430	.58750	.18180	.14050	.09620	.05470	.04380	.58800	-.06850	3.12500	.71380
.800	10.580	.66130	.22500	.16200	.09970	.05870	.04640	.69140	-.09300	2.93900	.70810
.799	12.550	.73770	.27350	.22770	.10670	.05970	.04640	.77950	-.09710	2.69700	.70450
.800	14.850	.83480	.33460	.28410	.11270	.06050	.05150	.89220	-.10450	2.49400	.70280
.801	16.720	.92270	.39750	.34580	.11530	.05770	.05740	.99870	-.10680	2.13700	.69700
.798	18.710	.98280	.44780	.35330	.11530	.05770	.05740	1.05600	-.08350	1.96600	.68730
.800	20.820	1.00400	.51020	.44570	.12010	.05550	.08120	1.12070	.03270	1.61300	.65950
.800	22.780	.98380	.53060	.45610	.11830	.05550	.08120	1.09400	.03240	1.66400	.64950
.800	24.700	.95270	.57210	.49070	.12040	.05080	.08930	1.10400	.03690	1.54700	.64810
.800	26.840	.98550	.63720	.55310	.12370	.02940	.09200	1.16700	.03690	1.40644	-.04175
.799	GRADIENT	.03406	.03477	.00512	-.00079	-.00045	-.00039	.05966	-.00351		

RUN NO. 130/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.804	-1.811	.04720	.10560	.06270	.10710	.06410	.04230	.04380	-.06630	.44650	1.20100
.806	.277	.17280	.11350	.07170	.11250	.07090	.04140	.17330	-.08250	1.52300	.63020
.807	2.383	.29790	.12550	.08470	.11300	.07220	.04120	.30290	-.09750	2.57300	.77510
.807	4.478	.41220	.14250	.08900	.10990	.06620	.04270	.42210	-.10720	2.69200	.75080
.806	6.531	.50740	.17430	.13390	.11550	.07480	.04070	.52400	-.11020	2.91100	.73520
.806	8.615	.59660	.21080	.16760	.11910	.07530	.04350	.62180	-.11180	2.63000	.72430
.804	10.680	.68390	.25450	.20750	.12360	.07580	.05150	.71910	-.11520	2.68700	.71730
.802	12.690	.76980	.30490	.25460	.12840	.07690	.05370	.81780	-.12070	2.52400	.71280
.806	14.820	.87420	.36920	.31830	.13320	.08060	.05370	.93950	-.13150	2.36800	.70230
.805	16.860	.93580	.42750	.36870	.13760	.08630	.06050	1.02000	-.12070	2.02100	.69500
.807	18.960	.99050	.49010	.42750	.14180	.07550	.06630	1.09600	-.08310	1.67400	.68580
.804	20.960	1.02500	.54710	.47530	.14410	.06720	.07720	1.15300	-.02450	1.72100	.68760
.804	22.950	1.05000	.58120	.49800	.14520	.05490	.09030	1.14800	-.00320	1.59800	.68090
.806	25.020	1.03400	.64700	.55800	.14900	.05070	.09620	1.21070	.01770	1.51600	.65780
.805	27.060	1.07800	.71460	.62500	.17620	.04560	.10000	1.28400	-.00657	.39031	-.06770
	GRADIENT	.05819	.00586	.00512	.00042	.00036	.00005	.06031			

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TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 810 CS DT HS F4 WATE16 VRS5 X13

(681026) (29 JUN 73)

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 SPORON = 24.900
 BODYLP = -14.200 RUCCOR = .030
 ELVN-L = 10.000 ZLVN-R = 10.000

REFERENCE DATA

SREF = 2990.0000 58.17. 1ANP = 1076.4800 IN.
 LREF = 474.8000 IN. VREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 129/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
1.203	-1.734	.03910	.16100	.10590	.16210	.10700	.03900	.03420	-.05630	.24290	1.26900
1.203	.399	.15680	.16540	.10990	.16440	.10690	.03510	.13730	-.06190	.94430	.64620
1.196	2.421	.07110	.17670	.12560	.16310	.11090	.03390	.27630	-.10470	1.33400	.79480
1.201	4.565	.36630	.19620	.14340	.16490	.11190	.03300	.40070	-.12450	1.99900	.77110
1.202	6.621	.49420	.22290	.16960	.16400	.10930	.03330	.51660	-.14060	2.22100	.75740
1.201	8.723	.59870	.25660	.20360	.16490	.10960	.03900	.63030	-.15310	2.31500	.74640
1.202	10.810	.70400	.30820	.24630	.16890	.10960	.05900	.74890	-.16660	2.29900	.73960
1.202	12.860	.81090	.36320	.30230	.17340	.11100	.08240	.87110	-.17630	2.23200	.73380
1.201	14.960	.90980	.42670	.36270	.17690	.11100	.08570	.96610	-.18660	2.13200	.72200
1.196	17.040	.99800	.49470	.42750	.17990	.10930	.08920	1.09900	-.19060	2.02000	.72200
1.204	19.130	1.06900	.55730	.49340	.17590	.11040	.08500	1.19210	-.19990	1.91800	.71690
1.196	21.160	1.09400	.59610	.53630	.16260	.09610	.06620	1.25600	-.15570	1.82600	.70300
1.196	23.220	1.09700	.63670	.57720	.15430	.08740	.06630	1.28070	-.11860	1.71600	.69370
1.196	25.290	1.10300	.69030	.62340	.15330	.08140	.07060	1.29400	-.07690	1.60000	.66120
1.202	27.300	1.15200	.73420	.69450	.14190	.07480	.06660	1.36970	-.07390	1.52700	.67930
	GRADIENT	.09580	.00559	.00596	.00043	.00760	-.00034	.03626	-.01057	.27516	-.07369

DATE 28 SEP 73

TABULATED SOURCE DATA AVES 66-706 (M43)

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(RST029) (29 JUN 73)

AVES 66-706 CH43 B10 CS D7 NO P4 WASTE18 VMS X15

REFERENCE DATA

SREF = 2690.0000 26.97. 199P = 1076.4000 IN.
 LREF = 476.8000 IN. 190P = .0000 IN.
 BREF = 936.6000 IN. 200P = 670.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -8.000
 AIRLON = .000 SPORER = 24.900
 BOOFLP = -14.200 RUDDER = .000
 ELVHL = -5.000 ELVHLR = -5.000

RUN NO. 134/ 0 RV/L = 2.53 GRADIENT INTERVAL = -8.00/ 5.00

MAOH	ALPHA	CL	CD	COF	CA	CAP	CAB	CN	CLM	L/D	XCP/L
.999	-2.108	-1.8040	.07430	.04060	.08780	.08410	.03310	-.11300	.06940	-8.42700	.78770
.901	-.139	-.09130	.06870	.03320	.06930	.03890	.03890	-.09140	.06420	-1.32800	.91110
.804	1.955	.00130	.06620	.03280	.06620	.03290	.03330	.00360	.06480	.01950	-8.64100
.802	4.075	.09790	.08750	.03470	.06040	.02790	.03220	.10190	.06480	1.44100	.43340
.999	6.062	.19260	.07250	.04030	.05180	.01940	.03220	.30750	.06820	2.65800	.53790
.800	9.123	.29630	.06480	.03230	.04180	.00900	.03220	.41870	.06350	3.51800	.58110
.800	10.170	.40320	.10970	.07720	.03660	.00360	.03260	.52350	.05720	3.67800	.80540
.919	12.220	.50210	.15510	.12180	.04530	.01110	.03400	.63040	.05000	3.23700	.62090
.811	14.310	.59880	.20270	.16780	.06440	.01220	.03610	.73990	.03770	2.95400	.83180
.801	16.320	.69540	.25600	.22000	.05220	.01260	.03870	.87030	.03340	2.52800	.64830
.998	18.360	.81080	.32060	.28140	.04860	.00720	.04080	.98690	.03410	2.35100	.64760
.801	20.470	.90910	.36680	.34520	.04440	.00010	.04430	1.06200	.04580	2.16700	.84480
.801	22.450	.96490	.41530	.40030	.04310	-.00570	.04780	1.08100	.06440	1.98500	.83210
.997	24.520	.96620	.46660	.43170	.04170	-.01860	.05870	.99940	.13460	1.78100	.81180
.802	26.480	.87280	.48980	.42950	.04970	-.01780	.06630	.99940	-.00009	.62763	-.37221
GRADIENT		.04484	-.00110	-.00100	-.00117	-.00109	-.00010	.04800			

RUN NO. 135/ 0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MAOH	ALPHA	CL	CD	COF	CA	CAP	CAB	CN	CLM	L/D	XCP/L
.999	-2.073	-1.8750	.07590	.03980	.08910	.03240	.03620	-.19120	.07100	-8.47000	.78350
.900	.007	-.06750	.07060	.03630	.07060	.03630	.03340	-.04740	.06870	-1.23800	.94110
.700	2.079	.00670	.06770	.03460	.06740	.03430	.03300	.01120	.06900	.12850	-1.59200
.700	4.073	.10420	.06970	.03630	.06210	.02860	.03070	.10890	.06900	1.49800	.43380
.700	6.244	.20940	.07780	.04280	.05460	.01940	.03390	.21680	.07080	2.69100	.54340
.703	8.236	.31680	.09450	.06120	.04810	.01450	.03280	.32710	.06480	3.35300	.98910
.702	10.300	.40930	.12940	.09590	.05410	.02000	.03280	.42580	.06250	3.16300	.80750
.700	12.370	.50260	.16830	.13290	.05670	.02050	.03280	.52700	.05730	2.98700	.62110
.698	14.350	.59030	.21540	.17870	.06260	.02480	.03800	.62530	.04780	2.74000	.83280
.701	16.480	.69270	.27150	.23270	.06410	.02370	.04060	.74130	.04100	2.55100	.64020
.701	18.530	.78800	.32830	.28940	.06080	.01980	.04120	.85150	.03980	2.40100	.64330
.694	20.540	.87180	.36670	.34530	.05630	.01230	.04430	.93270	.04560	2.25400	.64290
.703	22.570	.92360	.44590	.39960	.05630	.00630	.05040	1.02600	.06680	2.07600	.63680
.699	24.620	.87120	.46560	.40770	.06040	-.00330	.06290	.98600	.11970	1.87100	.61660
.700	26.580	.83720	.49490	.42680	.06790	-.00870	.07150	.97010	.15090	1.69200	.60440
GRADIENT		.04736	-.00106	-.00051	-.00117	-.00064	-.00049	.04856	-.00026	.64656	-.17724

DATE 29 SEP 75

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 B10 C5 D7 H5 P4 WATER:0 VRRS H15

(RST029) (29 JUN 75)

REFERENCE DATA

9007 = 2000.0000 56.17. 1000P = 1076.4000 IN.
 1007 = 474.0000 IN. 1000P = .0000 IN.
 9007 = 956.0000 IN. 2000P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AIRLON = .000 SPDRK = 24.900
 BOOPLP = -14.200 RUDDER = .000
 ELWH-L = -5.000 ELWH-R = -5.000

RUN NO. 136/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.601	-1.957	-.18780	.08000	.04330	.07350	.03660	.03500	-.19020	.07800	-2.34000	.80670
.799	.083	-.06330	.07440	.04090	.07450	.04100	.03370	-.06320	.07350	-1.12000	.97570
.799	2.131	.01930	.07460	.03660	.07360	.03600	.03490	.02200	.07080	.25620	-.46560
.800	4.310	.13130	.07710	.04460	.06700	.03440	.03190	.13670	.06660	1.70400	.46010
.801	6.328	.23230	.09170	.05660	.06590	.03240	.03280	.24100	.06660	2.53400	.56120
.802	8.336	.31130	.11400	.06700	.06770	.03370	.03370	.32460	.07150	2.73100	.56120
.800	10.400	.40380	.14910	.11220	.07340	.03690	.03630	.42040	.06640	2.70200	.60350
.800	12.430	.48370	.18420	.14950	.07570	.03920	.03620	.51200	.06420	2.62600	.61520
.801	14.550	.56690	.23160	.19460	.08210	.04370	.03660	.61660	.05750	2.44300	.62610
.802	16.560	.64620	.28310	.24490	.08760	.04100	.04050	.72120	.05060	2.36000	.63480
.796	18.560	.72530	.33750	.29450	.07900	.03390	.04530	.82340	.05210	2.23900	.63740
.801	20.740	.80320	.40200	.35090	.08090	.02620	.03390	.92160	.06340	2.07300	.63540
.800	22.790	.86320	.45060	.39490	.08170	.02130	.06050	.97030	.09480	1.91600	.62510
.799	24.710	.82430	.47610	.41030	.06920	.01550	.07210	.94760	.13690	1.73100	.60760
.797	26.740	.84090	.52460	.45360	.09010	.01060	.07730	.96710	.14970	1.60300	.60580
GRADIENT		.03081	-.00040	-.00016	-.00096	-.00076	-.00041	.05209	-.00146	.64904	-.11464

RUN NO. 137/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CDP	CA	CAF	CAB	CN	CLM	L/D	XCP/L
.695	-1.900	-.16410	.09140	.05810	.06590	.03260	.03390	-.16710	.07660	-1.79600	.82390
.801	.217	-.03160	.09190	.05640	.09210	.05650	.03570	-.03130	.03720	-.34390	1.31400
.895	2.299	.07240	.09110	.05660	.08610	.05560	.03220	.07600	.05100	.79460	.42010
.901	6.446	.27960	.12400	.08960	.09160	.05710	.03390	.29190	.04530	2.25700	.60450
GRADIENT		.05634	-.00007	.00012	.00053	.00072	-.00040	.05791	-.00611	.61720	-.09525

(AST001) (24 AUG 75)

TABULATED SOURCE DATA ANES 66-706 (0443)

ANES 66-706 0443 B10 C5 D7 W5 P4

DATE 28 SEP 75

PARAMETRIC DATA

BETA = .000 BODYLP = -14.200

REFERENCE DATA

SURF = 2400.0000 50.FT. 1000P = 1076.4000 IN.
 LREF = 474.0000 IN. YMC = .0000 IN.
 BREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 3/0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	OE	OR
.601	-2.045	-.04670	.04750	.00640	-.00120	-.00030	.00000	.00000	.00200
.601	-.006	-.04690	.04620	.01230	-.00180	-.00030	.00000	.00000	.00000
.601	2.112	-.03160	.04470	.01960	-.00160	-.00050	.00000	.00000	.00000
.602	4.139	-.01590	.04370	.02750	-.00120	-.00040	.00000	.00000	.00000
.601	6.144	-.00310	.04310	.03660	-.00190	-.00060	.00000	.00000	.00000
.601	8.171	.00960	.04200	.04560	-.00130	-.00050	.00000	.00000	.00000
.601	10.150	.02660	.04180	.05350	-.00260	-.00090	.00000	.00000	.00000
.601	12.240	.04430	.04140	.06230	-.00220	-.00070	.00000	.00000	.00000
.600	14.280	.06200	.04090	.07140	-.00240	-.00070	.00000	.00000	.00000
.600	16.260	.08220	.03930	.08020	-.00250	-.00090	.00000	.00000	.00000
.600	18.200	.10200	.03720	.08820	-.00120	-.00090	.00000	.00000	.00000
.598	20.300	.12460	.03610	.09690	.00000	-.00090	.00000	.00000	.00000
.598	22.270	.15360	.03570	.10290	-.00100	-.00100	.00000	.00000	.00000
.601	24.340	.18350	.03570	.10970	.00050	-.00120	.00000	.00000	.00000
.601	26.160	.21060	.03210	.11600	.00140	-.00120	.00000	.00000	.00000
.597	GRADIENT	.00695	-.00060	.00342	.00001	-.00002	.00000	.00000	.00000

RUN NO. 2/0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	OE	OR
1.498	-1.949	-.04960	.10340	-.01060	-.00260	-.00070	.00010	.00000	.00000
1.501	.090	-.03520	.10230	-.00140	-.00300	-.00070	.00010	.00000	.00000
1.503	2.326	-.01560	.10050	.00970	-.00340	-.00060	.00010	.00000	.00000
1.501	4.297	.00050	.09890	.02100	-.00310	-.00090	.00020	.00000	.00000
1.501	6.324	.01950	.09850	.03160	-.00350	-.00090	.00030	.00000	.00000
1.501	8.361	.03670	.09840	.04190	-.00310	-.00060	.00030	.00000	.00000
1.499	10.420	.06160	.09660	.05420	-.00440	-.00100	.00030	.00000	.00000
1.499	12.420	.06650	.09510	.06730	-.00560	-.00110	.00030	.00000	.00000
1.499	14.460	.11690	.09450	.07630	-.00660	-.00120	.00030	.00000	.00000
1.499	16.470	.15110	.09040	.09180	-.00660	-.00120	.00030	.00000	.00000
1.499	18.630	.19170	.09040	.10470	-.00660	-.00120	.00030	.00000	.00000
1.497	20.540	.23030	.08670	.11460	-.00850	-.00140	.00030	.00000	.00000
1.497	22.520	.26930	.08470	.12690	-.00930	-.00140	.00040	.00000	.00000
1.499	24.730	.31260	.08160	.14660	-.01090	-.00140	.00040	.00000	.00000
1.497	26.660	.35230	.07860	.16300	-.01430	-.00070	.00040	.00000	.00000
1.497	GRADIENT	.00612	-.00075	.00307	-.00006	-.00001	.00000	.00000	.00000

DATE 28 SEP 73

LABY0001 (24 AUG 73)

AVES 66-706 0443 810 C5 07 MS F4

PARAMETRIC DATA

BETA = .000 SCOPLP = -14.800

REFERENCE DATA

SRCP = 2690.0000 56.00 FT. 10MRP = 1076.4000 IN.
 LREF = 474.0000 IN. 1MRP = .0000 IN.
 BRCP = 936.0000 IN. 2MRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 1/ 0 RIVL = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CH	CA	CLM	CY	CYN	CBL	CHE	CHR
1.999	-1.522	-.04540	.09180	-.01970	-.00250	-.00060	.00010	.00000	.00000
2.002	.563	-.03050	.06660	-.00670	-.00250	-.00060	.00010	.00000	.00000
1.999	2.729	-.00900	.06630	.00240	-.00250	-.00060	.00010	.00000	.00000
1.999	4.759	.00700	.06380	.01270	-.00310	-.00060	.00010	.00000	.00000
1.999	6.924	.02760	.06320	.02260	-.00350	-.00060	.00020	.00000	.00000
1.999	8.797	.04790	.06190	.03200	-.00320	-.00060	.00020	.00000	.00000
1.999	10.660	.07340	.06070	.04330	-.00350	-.00060	.00020	.00000	.00000
1.999	12.670	.10040	.07900	.05450	-.00390	-.00060	.00030	.00000	.00000
2.000	15.000	.13930	.07630	.06550	-.00450	-.00060	.00030	.00000	.00000
1.998	16.950	.17020	.07280	.07760	-.00470	-.00090	.00030	.00000	.00000
1.998	18.930	.20970	.07030	.08820	-.00530	-.00100	.00030	.00000	.00000
1.998	21.040	.24790	.06760	.10190	-.00560	-.00100	.00030	.00000	.00000
2.002	23.060	.28560	.06540	.11690	-.00640	-.00070	.00020	.00000	.00000
2.002	25.110	.32380	.06400	.13300	-.00750	-.00050	.00010	.00000	.00000
1.999	27.160	.36570	.06260	.14660	-.00810	-.00020	.00020	.00000	.00000
	GRADIENT	.00652	-.00123	.00502	-.00011	-.00000	.00000	.00000	.00000

(AST002) (24 AUG 75)

TABULATED SOURCE DATA AVES 66-706 (0443)

AVES 66-706 0443 010 C5 D7 M3 P4 W0TE10

DATE 28 SEP 75

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILVON = .000 BOOPLP = -14.200
 ELVH-L = .000 ELVH-R = .000

REFERENCE DATA

SREF = 2990.0000 86.FT. 300P = 1076.4000 IN.
 LREF = 414.8000 IN. YREF = .0000 IN.
 BREF = 936.8000 IN. ZREF = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 5/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	OE
1.999	-1.902	.13020	-.02020	-.02230	-.00110	.00010	.00000	.00000	.00000
1.998	.124	.05610	-.03540	-.00297	-.00100	.00000	.03690	.00000	.00000
1.997	2.452	.12620	-.05050	-.00280	-.00110	.00000	.00770	.00000	.00000
1.996	4.819	.12600	-.06280	-.00240	-.00100	.00000	-.01990	.00000	.00000
1.995	6.705	.12560	-.07380	-.00210	-.00090	.00000	-.04910	.00000	.00000
1.994	8.637	.12590	-.08400	-.00250	-.00090	.00000	-.06240	.00000	.00000
1.993	10.500	.12490	-.09700	-.00230	-.00090	.00000	-.12710	.00000	.00000
1.992	12.810	.12530	-.10710	-.00250	-.00090	.00000	-.16310	.00000	.00000
1.991	14.950	.12370	-.11280	-.00300	-.00090	.00000	-.19480	.00000	.00000
1.990	17.100	.12100	-.11990	-.00220	-.00090	.00000	-.23580	.00000	.00000
1.989	19.100	.11960	-.12510	-.00250	-.00090	.00000	-.26500	.00000	.00000
1.988	21.340	.11700	-.12870	-.00240	-.00090	.00000	-.29530	.00000	.00000
1.987	23.340	.11500	-.12790	-.00460	-.00120	.00000	-.30730	.00000	.00000
1.986	25.400	.11760	-.12500	-.00670	-.00160	.00000	-.32210	.00000	.00000
1.985	27.430	.11540	-.11760	-.00770	-.00180	.00000	-.33700	.00000	.00000
1.984	.04566	-.00036	-.00645	-.00002	-.00001	.00000	-.01243	.00000	.00000

RUN NO. 4/ 0 RV/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	OE
1.999	-1.302	.11590	-.03710	-.00440	-.00100	.00010	.02140	.00000	.00000
1.998	.520	.11650	-.04430	-.00490	-.00100	.00010	.00060	.00000	.00000
1.997	.769	.11690	-.04570	-.00500	-.00100	.00010	-.00370	.00000	.00000
1.996	2.927	.11420	-.05360	-.00470	-.00100	.00000	-.08290	.00000	.00000
1.995	5.070	.11340	-.06040	-.00460	-.00090	.00000	-.04590	.00000	.00000
1.994	7.126	.11190	-.06730	-.00420	-.00090	.00000	-.06860	.00000	.00000
1.993	9.107	.11260	-.07160	-.00350	-.00090	.00000	-.09150	.00000	.00000
1.992	11.210	.10960	-.07620	-.00430	-.00070	.00000	-.11530	.00000	.00000
1.991	13.260	.10920	-.07670	-.00490	-.00050	.00000	-.13710	.00000	.00000
1.990	15.360	.10510	-.08220	-.00500	-.00030	.00000	-.15640	.00000	.00000
1.989	17.470	.10260	-.08440	-.00700	-.00010	.00000	-.18220	.00000	.00000
1.988	19.450	.09690	-.08670	-.00710	-.00010	.00000	-.20620	.00000	.00000
1.987	21.460	.09670	-.08960	-.00740	-.00000	.00000	-.22960	.00000	.00000
1.986	23.640	.09410	-.09270	-.00780	-.00000	.00000	-.25420	.00000	.00000
1.985	25.770	.09470	-.09470	-.00770	-.00000	.00000	-.27360	.00000	.00000
1.984	27.910	.09330	-.09720	-.00720	-.00000	.00000	-.29810	.00000	.00000
1.983	.03606	-.00042	-.00390	-.00006	-.00000	.00000	-.01046	.00000	.00000

DATE 26 SEP 75

TABULATED SOURCE DATA AMES 66-706 (0443)

(AST003) (24 AUG 75)

AMES 66-706 0443 B10 C5 D7 F4 W07E18 V015

REFERENCE DATA

SREF = 2690.0000 34. FT. XREF = 1076.4600 IN.
 LREF = 474.6000 IN. YREF = .0000 IN.
 BREF = 936.6600 IN. ZREF = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRCORN = .000 SPOARK = 94.900
 SCDFLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 7/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CE	CHR
1.909	-1.607	-0.0100	.13140	.00600	-.00600	.00060	-.00060	.03470	-.00710
1.902	.870	.00800	.18020	-.00630	-.00680	.00070	-.00070	.00710	-.00680
1.904	2.456	.18380	.14960	-.02340	-.00610	.00070	-.00070	-.01910	-.00490
1.904	4.878	.25540	.14850	-.03860	-.00590	.00070	.00020	-.04110	-.00310
1.497	6.060	.35740	.14710	-.04680	-.00650	.00060	.00040	-.07360	-.00180
1.501	8.779	.45750	.14590	-.06140	-.00570	.00070	.00060	-.10740	-.00170
1.501	10.780	.55260	.14420	-.07210	-.00560	.00070	.00030	-.14420	-.00130
1.501	12.750	.64690	.14400	-.08250	-.00570	.00040	.00030	-.17420	-.00160
1.499	14.840	.74650	.14290	-.09110	-.00630	.00020	.00030	-.20190	-.00160
1.499	17.090	.85150	.14010	-.09850	-.00420	.00030	.00030	-.23770	-.00140
1.499	19.170	.94530	.13950	-.10390	-.00360	.00030	.00050	-.26680	-.00130
1.499	21.240	1.04000	.13650	-.10390	-.00540	.00030	.00030	-.26980	.00220
1.496	23.330	1.13500	.13670	-.10310	-.00510	.00020	.00040	-.30240	.00930
1.496	25.520	1.23600	.13750	-.10240	-.00720	.00030	.00050	-.32420	.00190
1.497	27.690	1.34000	.13760	-.09890	-.00470	.00030	.00030	-.35300	-.00100
GRADIENT		.04500	-.00044	-.00656	.00006	.00002	.00011	-.01168	.00162

RUN NO. 6/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CE	CHR
1.996	-1.312	-0.01930	.12510	-.01360	-.00310	.00040	-.00070	.00720	.00090
2.002	.817	.03720	.12790	-.02290	-.00320	.00040	-.00060	-.01330	-.00090
1.999	2.926	.13260	.12760	-.03060	-.00430	.00060	-.00080	-.03530	-.00140
2.002	4.964	.20740	.12570	-.03930	-.00440	.00050	-.00090	-.05820	-.00230
1.999	6.956	.27660	.12370	-.04490	-.00500	.00040	-.00090	-.08090	-.00180
1.999	9.065	.35400	.12150	-.05190	-.00510	.00050	-.00100	-.10350	-.00230
1.996	11.040	.42570	.12080	-.05600	-.00440	.00050	-.00090	-.12340	-.00230
1.999	13.450	.51630	.11710	-.06150	-.00460	.00060	-.00090	-.14630	-.00160
1.999	15.360	.58650	.11530	-.06450	-.00510	.00050	-.00090	-.16600	-.00090
2.001	17.490	.67560	.11320	-.06720	-.00510	.00050	-.00080	-.19060	-.00030
1.996	19.450	.75240	.11200	-.06890	-.00560	.00040	-.00090	-.21070	-.00030
1.997	21.540	.84700	.11200	-.07150	-.00570	.00010	-.00100	-.23500	-.00100
2.000	23.570	.92540	.10860	-.07360	-.00290	-.00060	-.00080	-.25730	-.01090
2.003	25.660	1.02200	.10680	-.07630	-.00260	-.00060	-.00080	-.27670	-.01600
2.003	27.830	1.12300	.10540	-.08330	-.00300	-.00060	-.00040	-.30050	-.01650
GRADIENT		.03609	.00009	-.00006	.00014	.00002	-.00004	-.01042	-.00046

DATE 28 SEP 75

TABULATED SOURCE DATA AXES 66-706 (0443)

PAGE 79

AXES 66-706 0443 810 CS DT NS FA 047218 VSR5

(AST004) (24 AUG 75)

REFERENCE DATA

SREF = 2660.000' 56.1 FT. XREF = 1076.4800 IN.
 LREF = 474.6000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELEVON = .000
 AIRCON = .000 SPOONK = 94.900
 BOOFLP = -14.200 RUDDER = .000
 ELWHL = .000 ELWHL-R = .000

PARAMETRIC DATA

RUN NO. 12/ 0 RV/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.902	-1.976	-1.1180	.08750	.04900	.00140	-.00100	-.00190	.07830	-.00970
.902	.062	-.01920	.06880	.04920	.00170	-.00080	-.00140	.07840	-.00980
.904	2.115	.07460	.06610	.05060	.00220	-.00060	-.00190	.08000	-.00990
.904	4.113	.17220	.06120	.04910	.00160	-.00070	-.00180	.07470	-.00990
.902	8.207	.26100	.07310	.04460	.00140	-.00070	-.00180	.06320	-.00740
.901	8.280	.30610	.06350	.04310	.00070	-.00060	-.00180	.04920	-.00740
.900	10.570	.49880	.06650	.03940	.00160	-.00050	-.00090	.02440	-.00470
.900	12.380	.99600	.07070	.03590	.00210	-.00030	-.00020	.00130	-.00670
.901	14.480	.70300	.07500	.03260	.00190	-.00040	-.00070	-.02640	-.00670
.901	16.530	.62250	.07920	.02590	.00250	-.00040	-.00050	-.03580	-.00370
.901	18.590	.94430	.07770	.01220	.00150	-.00010	-.00160	-.06870	-.00350
.900	20.710	.06100	.07440	.01760	.00240	-.00020	-.00190	-.06180	-.00350
.900	22.690	1.12600	.07240	.02810	.00010	-.00020	-.00160	-.09300	-.00970
.901	24.740	1.12900	.06680	.07720	.00460	.00020	-.00160	-.09140	-.00820
.902	26.740	1.04800	.07320	.13200	.00090	.00080	-.00020	-.07780	-.00015
GRADIENT		.04619	-.00105	.00010	.00005	.00005	-.00008	-.00045	

RUN NO. 11/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.906	-1.744	-.08450	.11140	.04720	.00110	-.00100	-.00070	.08860	-.02040
.901	.365	.01720	.11240	.04310	.00180	-.00100	-.00070	.10370	-.01890
.904	2.429	.11320	.11390	.04620	.00070	-.00060	.00150	.13660	-.01770
.902	4.471	.21710	.11050	.04430	.00050	-.00060	.00030	.12760	-.01610
.903	6.547	.32280	.11150	.03790	.00100	-.00100	.00010	.09270	-.01550
.903	8.606	.42360	.11220	.03100	.00240	-.00130	.00010	.07790	-.01490
.909	10.720	.52790	.11460	.02220	.00180	-.00150	-.00010	.02760	-.01280
.901	12.750	.62830	.11750	.00690	-.00030	-.00040	.00030	-.02880	-.01220
.902	14.870	.74760	.12340	.00160	.00040	-.00030	.00030	-.07860	-.01110
.909	16.910	.86120	.12900	-.00190	-.00090	-.00040	.00010	-.10730	-.01230
.908	19.020	.94750	.13130	.00720	.00000	-.00010	.00120	-.12920	-.01380
.903	21.140	1.04670	.13500	.01900	.00000	-.00100	.00180	-.15060	-.01380
.909	23.140	1.06970	.13540	.03240	.01540	-.00040	-.00290	-.15830	-.02390
.906	25.160	1.10400	.14050	.08990	-.00010	-.00010	.00090	-.14560	-.01670
.901	27.260	1.19900	.13920	.09430	.00040	.00230	.00010	-.18250	-.00068
GRADIENT		.04976	-.00005	-.00027	-.00014	.00006	.00025	.00725	

DATE 28 SEP 73

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TABULATED SOURCE DATA AVES 66-706 (0443)

AVES 66-706 0443 810 C5 D7 MS F4 W07E16 V245

(AST004) (24 AUG 73)

REFERENCE DATA

SEEP = 2000.0000 SQ.FT. AARP = 1079.4900 IN.
 LPEP = 474.8000 IN. YARP = .0000 IN.
 BREP = 934.5000 IN. ZARP = 402.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 34.900
 BOOFLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 10/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	O/E	CHR
1.200	-1.671	-.07170	.18510	.04930	-.00220	-.00110	-.00720	.06530	-.02420
1.201	.400	.04540	.16630	.02780	-.00270	-.00130	.00030	.06540	-.02230
1.203	2.504	.13900	.16640	.00350	-.00240	-.00120	.00070	.04060	-.02140
1.205	4.645	.28200	.16620	-.01210	-.00290	-.00100	.00120	.01580	-.01950
1.207	6.720	.39010	.10590	-.02310	-.00360	-.00080	.00210	-.01070	-.01990
1.209	8.799	.49780	.16500	-.03400	-.00330	-.00070	.00010	-.04940	-.01770
1.210	10.890	.61740	.16570	-.04620	-.00180	-.00090	-.00060	-.08950	-.01400
1.211	12.980	.75190	.16670	-.05690	-.00440	-.00000	-.00090	-.13020	-.01580
1.212	15.070	.86380	.16690	-.07810	-.00500	.00010	.00240	-.18390	-.01490
1.213	17.160	.97420	.16660	-.08790	-.00220	-.00060	.00060	-.23590	-.01350
1.214	19.360	1.08100	.16410	-.09390	-.00110	-.00030	.00020	-.27760	-.01070
1.215	21.370	1.15970	.15990	-.08300	-.00450	-.00280	.00190	-.25350	-.00700
1.216	23.410	1.18000	.15190	-.04100	-.00390	-.00070	-.00010	-.27060	-.01020
1.217	25.470	1.21970	.14810	-.00360	-.00070	-.00080	.00000	-.25700	-.00140
1.218	27.540	1.29300	.14340	.01030	.00050	.00000	-.00070	-.29010	-.00840
1.219	GRADIENT	.05606	.00016	-.00966	-.00009	.00002	.00022	-.01109	.00071

RUN NO. 9/ 0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	O/E	CHR
1.200	-1.659	-.06680	.16410	.02820	-.00310	-.00130	-.00710	.06220	-.02380
1.202	.214	.03100	.16320	.01170	-.00310	-.00120	.00010	.03590	-.02300
1.203	2.292	.12580	.18180	-.00360	-.00350	-.00140	.00060	.01080	-.02340
1.205	4.466	.22550	.15910	-.01770	-.00350	-.00120	.00110	-.01820	-.02430
1.207	6.527	.32100	.15770	-.02960	-.00430	-.00080	.00100	-.04500	-.02390
1.209	8.576	.41800	.15590	-.04240	-.00440	-.00060	.00120	-.07670	-.02250
1.210	10.690	.52270	.15360	-.05640	-.00400	-.00070	.00110	-.12400	-.02340
1.211	12.740	.62290	.15670	-.06420	-.00460	-.00080	.00070	-.16350	-.02040
1.212	14.930	.72160	.15460	-.07530	-.00410	-.00100	.00060	-.19660	-.01850
1.213	16.960	.81860	.15140	-.08270	-.00420	-.00130	.00020	-.26740	-.01430
1.214	19.010	.91190	.15100	-.08970	-.00430	-.00030	.00040	-.29620	-.01560
1.215	21.160	1.01300	.15100	-.09360	-.00400	-.00050	.00010	-.31360	-.01650
1.216	23.220	1.10700	.14940	-.09560	-.00300	-.00110	.00040	-.32140	-.01950
1.217	25.290	1.19800	.14610	-.09940	-.00300	-.00110	.00060	-.32140	-.03430
1.218	27.480	1.29300	.14030	-.08470	-.00540	-.00170	.00060	-.33740	-.00009
1.219	GRADIENT	.04641	-.00078	-.00726	-.00006	.00001	.00019	-.01265	

DATE 28 SEP 73

TABULATED SOURCE DATA AVES 66-706 (0A43)

AVES 66-706 0A43 B10 C5 D7 M0 P4 W07E18 V0R15

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(ABT004) (24 AUG 73)

REFERENCE DATA

SREF = 2060.0000 80.77. 100P = 1076.4000 IN.
 LREF = 474.0000 IN. 100P = .0000 IN.
 WREF = 638.0000 IN. 100P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALURON = .000 SPOBRK = 54.900
 BOOFUP = -14.200 RUDDER = .000
 ELVH-L = .000 ELVN-R = .000

RUN NO. 8/0 RV/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	OE	OR
2.001	-1.304	-1.7410	.14110	.00120	-.00400	-.00080	-.00010	.02360	-.01490
2.002	.078	.03470	.14130	-.00770	-.00430	-.00090	-.00020	-.00050	-.01490
1.999	2.829	.11440	.13990	-.01890	-.00420	-.00080	-.00030	-.02300	-.01490
1.999	4.824	.18040	.13690	-.02740	-.00420	-.00080	-.00030	-.04420	-.01490
1.999	6.897	.26170	.13670	-.03540	-.00400	-.00080	-.00010	-.06590	-.01540
1.999	9.064	.33890	.13600	-.04140	-.00410	-.00060	.00010	-.09180	-.01570
2.000	11.070	.41400	.13190	-.04690	-.00440	-.00030	.00000	-.11490	-.01520
1.998	13.130	.49270	.13270	-.05150	-.00460	.00020	-.00010	-.13620	-.01440
2.001	15.170	.56620	.12760	-.05480	-.00650	.00010	-.00020	-.15750	-.01440
2.001	17.327	.63190	.12590	-.05920	-.00720	.00020	-.00030	-.18090	-.01520
2.001	19.360	.73480	.12340	-.06240	-.00650	-.00030	-.00030	-.20520	-.02150
2.001	21.420	.82390	.12190	-.06620	-.00710	-.00030	-.00040	-.23010	-.02200
2.000	23.530	.91420	.11830	-.07170	-.00550	-.00090	-.00040	-.25480	-.02360
2.002	25.590	1.00700	.11370	-.07440	-.00590	-.00090	-.00020	-.27490	-.02710
1.999	27.760	1.10670	.10920	-.07980	-.00650	-.00100	.00030	-.29460	-.00006
		.03645	-.00038	-.07458	-.00002	.00002	-.00003	-.01070	

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 B10 C5 D7 M3 P4 W07E18 V045

(AST005) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AIRLON = .000 SPOBRK = 54.870
 SCOPLP = -14.200 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

REFERENCE DATA

SREF = 2000.0000 50.00 FT. ZWRP = 1078.4100 IN.
 LREF = 474.8000 IN. YWRP = .0000 IN.
 BREF = 936.6000 IN. ZWRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 17/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.598	-2.052	.06950	.11610	-.05430	-.01630	.00110	.00230	-.03480	-.01680
.601	-.070	.16150	.11630	-.05800	-.01680	.00110	.00200	-.03080	-.01420
.601	2.251	.27300	.11350	-.05770	-.01610	.00120	.00210	-.04970	-.01350
.599	4.309	.36810	.10770	-.05360	-.01590	.00130	.00240	-.05910	-.01350
.600	6.408	.47710	.09650	-.05070	-.01550	.00130	.00210	-.06760	-.01200
.602	8.428	.58460	.08790	-.04820	-.01500	.00150	.00190	-.06090	-.01340
.603	10.510	.70490	.08980	-.04560	-.01500	.00140	.00960	-.10920	-.01120
.599	12.580	.77330	.09900	-.04130	-.01590	.00150	.00390	-.13650	-.01280
.599	14.590	.87520	.10630	-.04630	-.01570	.00150	.00260	-.17010	-.00980
.599	16.660	1.00500	.11250	-.04820	-.01540	.00150	.00790	-.20100	-.01050
.600	18.760	1.12270	.11600	-.04850	-.01760	.00110	.00330	-.21760	-.00820
.601	20.910	1.20270	.10870	-.03910	-.01280	.00080	.00230	-.20740	-.01200
.600	22.760	1.23570	.10700	-.04270	-.01570	.00080	.00050	-.17500	-.01560
.598	24.850	1.13570	.09980	.04270	-.01360	.00170	-.00020	-.17480	-.01560
.603	26.830	1.11400	.10580	-.07460	-.00006	.00003	.00002	-.00394	.00046
	GRADIENT	.04707	-.00141	-.00166					

RUN NO. 16/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.898	-1.737	.03430	.13130	-.04350	-.01560	.00170	.00250	-.02470	-.02410
.902	.380	.16470	.13870	-.03980	-.01660	.00210	.00170	-.01110	-.02230
.902	2.973	.29340	.13980	-.07330	-.01690	.00220	.00220	-.07880	-.02180
.903	4.846	.41800	.14170	-.06930	-.01620	.00260	.00180	-.10050	-.02110
.902	6.743	.52240	.14360	-.06990	-.01570	.00150	.00340	-.15150	-.02100
.902	8.619	.61960	.14510	-.09350	-.00770	.00170	.00130	-.16360	-.02100
.903	10.940	.72410	.15120	-.10080	-.00720	.00180	.00190	-.18900	-.01800
.899	12.970	.82120	.15450	-.10260	-.00720	.00100	.00150	-.18100	-.01840
.900	15.070	.93760	.16240	-.11270	-.00750	.00100	.00170	-.18840	-.01670
.901	17.120	1.03907	.16610	-.09180	-.01460	.00140	.00370	-.30950	-.01560
.901	19.190	1.10400	.17160	-.09180	-.00750	.00040	.00150	-.31210	-.01500
.902	21.230	1.15700	.17060	-.06020	-.00430	.00060	.00210	-.28400	-.01680
.902	23.240	1.21300	.17670	-.03350	-.00010	.00040	.00050	-.30240	-.02190
.902	25.340	1.23300	.17750	-.01410	-.00640	.00230	.00050	-.26440	-.02460
.902	27.400	1.31300	.17810	.02260	-.00710	.00340	-.00070	-.30790	-.01810
	GRADIENT	.05957	.00150	-.00160	-.00006	.00007	-.00005	-.01170	.00050

DATE 26 SEP 73

TABULATED SOURCE DATA AYES 66-706 (0443)

(A97005) (24 AUG 73)

AYES 66-706 0443 510 C5 D7 MS P4 WRT218 VARS

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 ALLUON = .000 SPOROK = 54.900
 BZDPLP = -14.500 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

REFERENCE DATA

SRP = 2890.0000 56. FT. YMRP = 1076.4800 IN.
 LRP = 474.8000 IN. YMRP = .0000 IN.
 BRP = 934.6000 IN. ZMRP = 403.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 15/ 0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CR
1.199	-1.991	.02800	.18440	-.02910	-.00740	-.00080	.00030	-.19970	-.03090
1.202	.404	.14410	.18950	-.05180	-.00750	-.00060	.00060	-.17220	-.02930
1.203	2.856	.27110	.18990	-.07440	-.00810	-.00110	.00110	-.19290	-.02800
1.200	4.772	.39750	.18990	-.09750	-.00870	-.00060	.00040	-.22370	-.02970
1.203	6.872	.51350	.18990	-.11390	-.00990	-.00080	.00210	-.24820	-.02970
1.203	8.964	.62850	.19060	-.12850	-.00970	-.00080	.00380	-.27910	-.02470
1.200	11.040	.74920	.19420	-.14380	-.00770	-.00050	.00180	-.31080	-.02200
1.201	13.190	.87260	.19660	-.15470	-.00840	-.00040	.00170	-.35180	-.02150
1.200	15.300	.99340	.19850	-.16620	-.00760	-.00080	.00290	-.36870	-.02050
1.201	17.400	1.10000	.20100	-.17170	-.00850	-.00100	.00300	-.42490	-.01920
1.200	19.450	1.19700	.19710	-.17170	-.00850	-.00090	.00040	-.45280	-.01920
1.200	21.490	1.22600	.18630	-.12920	-.00920	.00360	.00300	-.39120	-.01140
1.199	23.530	1.25300	.17670	-.08870	-.01660	.00270	.00220	-.35360	.01120
1.199	25.620	1.30000	.17750	-.03610	-.01030	.00080	.00080	-.36690	-.02010
1.201	27.720	1.37600	.17220	-.03800	-.01130	.00160	-.00190	-.38550	-.01500
1.200	GRADIENT	.05613	.00223	-.01066	.00016	-.00000	.00004	-.00982	.00060

RUN NO. 14/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CR
1.499	-1.986	-.01280	.17900	-.02000	-.00150	-.00120	-.00130	-.11440	-.02110
1.496	.840	.09300	.17690	-.03800	-.00660	-.00140	.00100	-.14180	-.02930
1.501	2.477	.19300	.17910	-.05470	-.00670	-.00130	.00130	-.16390	-.02910
1.501	4.536	.29140	.17670	-.07050	-.00640	-.00110	.00140	-.18320	-.02990
1.503	5.671	.35740	.17620	-.07990	-.00560	-.00100	.00140	-.21370	-.02920
1.502	6.626	.39390	.17670	-.08440	-.00590	-.00100	.00170	-.22810	-.02960
1.503	8.750	.49000	.17660	-.10100	-.00620	-.00100	.00170	-.26790	-.02770
1.503	10.810	.59680	.17670	-.11510	-.00670	-.00110	.00170	-.30620	-.02910
1.503	12.760	.69350	.18040	-.12780	-.00660	-.00100	.00180	-.34080	-.02910
1.503	14.980	.79580	.17970	-.13640	-.00720	-.00120	.00160	-.37280	-.02910
1.502	17.100	.89960	.17430	-.14610	-.00700	-.00130	.00110	-.40450	-.02160
1.502	19.180	.99550	.17430	-.15380	-.00780	-.00130	.00120	-.42410	-.01780
1.501	21.290	1.10100	.17490	-.16140	-.00840	-.00130	.00120	-.44660	-.02150
1.500	23.290	1.19900	.17320	-.16370	-.00730	-.00110	.00040	-.46230	-.02480
1.499	25.470	1.30100	.17310	-.16220	-.00840	-.00120	.00050	-.47530	-.02510
1.499	27.560	1.39300	.16950	-.15670	-.00940	-.00200	.00050	-.47740	-.04250
1.496	GRADIENT	.04690	-.00003	-.00779	-.00010	-.00002	.00011	-.01201	-.05009

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

AXES 66-706 0443 810 C5 07 HS F4 W87E18 Y885

(ART003) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AIRLON = .000 SPOBRK = 54.800
 BOOPLP = -14.200 RUDDER = .000
 ELWA-L = 10.000 ELWA-R = 10.000

REFERENCE DATA

BACK = 2000.0000 90.FT. 100RP = 1076.4800 IN.
 LREF = 474.8000 IN. 100RP = .0000 IN.
 BACK = 936.8000 IN. 200RP = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 13/ 0 RV/L = 2.45 GRADIENT INTERVAL = -9.00/ 9.00

ALPHA	CA	CLM	CT	CYN	CBL	CHC	CHR
1.996	-1.441	.19040	-.00390	-.00090	-.00040	-.09470	-.01980
2.009	.799	.15100	-.00370	-.00090	-.00090	-.11830	-.01790
2.001	2.872	.14930	-.00370	-.00090	-.00090	-.13660	-.01480
1.997	4.984	.15010	-.00420	-.00100	-.00030	-.18110	-.01770
1.996	6.944	.14970	-.00410	-.00090	-.00030	-.18720	-.01730
1.998	8.941	.14700	-.00370	-.00090	-.00030	-.21110	-.01770
2.004	11.160	.14740	-.00370	-.00090	-.00030	-.23620	-.01910
1.998	13.270	.14860	-.00420	-.00070	-.00030	-.25660	-.01720
1.996	15.360	.14590	-.00410	-.00070	-.00040	-.29470	-.01630
1.996	17.430	.14300	-.00320	-.00060	-.00030	-.32290	-.01980
2.002	19.490	.14020	-.00370	-.00060	-.00060	-.34620	-.01990
2.005	21.890	.13960	-.00370	-.00110	-.00060	-.36100	-.02480
2.005	23.530	.13930	-.00370	-.00110	-.00070	-.40830	-.02610
2.005	25.750	.13780	-.00650	-.00120	-.00070	-.43660	-.02680
2.002	27.770	.13410	-.00710	-.00180	-.00040	-.46800	-.02920
GRADIENT	.03700	-.00465	-.00010	-.00002	.00002	-.01026	.00006

DATE 28 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0443)

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ARES 66-706 0443 810 C3 D7 NS FA 147518 VSR5

(AST006) (24 AUG 73)

REFERENCE DATA

REF = 2090.0000 56.17. XPRP = 1076.4800 IN.
 LREF = 474.8000 IN. YPRP = .0000 IN.
 BREF = 936.6000 IN. ZPRP = 400.0000 IN.
 SCALE = .0190 SCALE

F N NO. 21/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AIRCOP = .000 SPOBAR = 54.900
 BOOPLP = -14.200 RUOPJR = .000
 ELW-L = -40.000 FLW-R = -40.000

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.199	-2.061	-52900	22590	25690	-0.00260	-0.00100	-0.00010	.56670	-.02800
1.200	.900	-40470	21630	24240	-0.00100	-0.00130	-0.00060	.56490	-.02430
1.201	.102	-27700	20900	22680	-0.00010	-0.00150	-0.00110	.54040	-.02320
1.202	2.275	.00220	19130	19540	.00260	-0.00190	-0.00220	.44620	-.01960
1.203	6.523	.13260	16470	16690	.00240	-0.00190	-0.00220	.40320	-.01970
1.204	8.909	.29010	14200	15420	.00350	-0.00230	-0.00210	.37260	-.01960
1.205	10.710	.43700	12530	13200	.00170	-0.00210	-0.00100	.32730	-.01920
1.206	12.750	.57020	10680	11190	.00140	-0.00290	-0.00110	.26250	-.01980
1.207	14.760	.68650	86320	11450	.00080	-0.00120	-0.00190	.22360	-.02030
1.208	17.020	.78370	66320	11520	.00040	-0.00100	-0.00100	.20700	-.01800
1.209	18.980	.86320	45880	12430	-0.00450	-0.00170	-0.00110	.17230	-.02430
1.210	21.130	.93750	25160	15600	.00370	-0.00160	-0.00060	.14410	-.02260
1.211	23.170	.99300	16580	19680	.00730	-0.00130	-0.00110	.160	-.02760
1.212	25.360	1.03400	15970	20940	.00770	-0.00130	-0.00110	.10710	-.02760
1.213	27.270	1.05833	-.00413	-.00653	.00002	-0.00012	-0.00023	-.01114	.00265

RUN NO. 20/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.199	-2.079	-.44510	26900	24910	-0.00120	-0.00140	-0.00180	.57920	-.02750
1.200	.230	-.26130	25730	23730	.00040	-0.00220	-0.00140	.50320	-.02710
1.201	2.420	-.13630	24960	17650	.00280	-0.001250	-0.00160	.44620	-.02430
1.202	4.545	-.07720	24730	15690	.00460	-0.00130	-0.00230	.41320	-.02100
1.203	6.751	.14190	24400	12750	.00350	-0.00130	-0.00180	.36470	-.02240
1.204	8.695	.29680	23960	11210	.00420	-0.00190	-0.00150	.36050	-.01910
1.205	10.710	.46630	23660	10330	.00200	-0.00100	-0.00130	.34060	-.01590
1.206	12.900	.63060	22720	.09110	-0.00020	-0.00100	-0.00030	.30220	-.01910
1.207	15.040	.74970	21820	.07570	-0.00200	-0.00100	-0.00070	.26620	-.01260
1.208	17.170	.89960	21030	.06230	-0.00130	-0.00120	-0.00090	.21760	-.00370
1.209	19.280	.99160	20340	.05850	.00010	-0.00075	-0.00060	.15690	-.00890
1.210	21.340	1.06600	19660	.06080	.00040	-0.00020	-0.00030	.14030	-.00940
1.211	23.430	1.04600	19060	.06740	-.00210	.00160	-0.00160	.11460	-.00150
1.212	25.410	1.06700	17740	.10020	.01710	-0.00500	-0.00410	.09230	-.01690
1.213	27.610	1.12700	16060	.11330	.00640	-0.00110	-0.00220	.06120	-.00930
1.201	GRADIENT	.06614	-.00332	-.01596	.00050	-0.00030	-0.00021	-.02513	.00190

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TABULATED SOURCE DATA AXES 66-T06 (0443)

AXES 66-T06 0443 B10 C5 D7 M3 P4 LB7E10 V0R5

(ABT006) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 ATTORN = .000 SPOBRK = 54.800
 R20PLP = -14.000 RUDDER = .000
 ELVN-L = -40.000 ELVN-R = -40.000

REFERENCE DATA

SREF = 2690.0000 50.00 FT. YMRP = 1076.4600 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 19/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.498	-2.012	-28040	.22390	.14390	.00260	-.00320	-.00030	.42740	-.04090
1.501	.097	-17820	.22380	.12870	.00500	-.00460	-.00090	.40570	-.04890
1.504	2.237	-.04970	.22010	.10690	.00440	-.00060	-.00040	.38140	-.04490
1.501	4.366	.04240	.21370	.06690	.00340	-.00090	-.00040	.34650	-.04760
1.501	6.479	.14830	.20350	.06990	.00230	-.00030	-.00040	.28940	-.04100
1.501	8.606	.25370	.19450	.03610	.00270	-.00030	-.00040	.26240	-.03830
1.501	10.690	.34830	.19340	.04990	.00280	-.00030	-.00040	.24730	-.03590
1.501	12.920	.46540	.18660	.03460	-.00080	-.00010	-.00010	.20260	-.02690
1.501	14.800	.56070	.18070	.02440	-.00180	-.00110	.00130	.16690	-.02330
1.501	16.990	.66390	.17590	.01690	-.00120	-.00020	.00060	.13130	-.01940
1.501	19.020	.75610	.17520	.01490	-.00120	-.00020	.00030	.10730	-.01720
1.501	21.110	.85790	.17500	.01240	-.00110	-.00020	.00030	.07860	-.01610
1.501	23.300	.95960	.17500	.01210	-.00120	-.00020	.00030	.06020	-.01940
1.499	25.500	1.05100	.16640	.01410	-.00150	-.00020	.00030	.04640	-.02380
1.499	27.320	1.12800	.16240	.02630	-.00110	-.00030	.00100	.04400	-.04490
GRADIENT		.09062	-.00161	-.00370	.00006	-.00007	-.00001	-.01255	-.00075

RUN NO. 18/ 0 RV/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.998	-1.611	-.18290	.18300	.04000	-.00040	-.00120	-.00110	.32960	-.02090
2.003	.676	-.08270	.17550	.06560	-.00110	-.00120	-.00110	.27900	-.01920
2.006	2.770	-.00790	.16900	.05290	-.00140	-.00220	-.00100	.24650	-.01670
2.000	4.863	.07710	.16270	.04100	-.00230	-.00180	-.00170	.20060	-.01620
1.998	6.974	.15460	.15550	.03240	-.00150	-.00160	-.00050	.15850	-.01770
1.998	8.979	.22930	.15240	.02680	-.00090	-.00060	-.00060	.14010	-.01730
1.998	11.110	.31110	.14860	.02060	-.00160	-.00120	-.00050	.13030	-.01660
1.998	13.140	.39240	.14490	.01430	-.00220	-.00190	-.00040	.10290	-.01770
1.998	15.230	.47150	.13950	.01070	-.00230	-.00060	-.00040	.07760	-.01660
1.998	17.210	.54930	.13670	.00640	-.00190	-.00070	-.00040	.06440	-.01630
1.999	19.420	.64060	.13350	.00750	-.00260	-.00090	-.00030	.05170	-.01690
1.999	21.490	.72480	.13130	.00630	-.00340	-.00100	-.00020	.03560	-.02250
2.002	23.500	.80440	.12850	.00600	-.00270	-.00130	-.00030	.02150	-.02350
2.003	25.650	.89750	.12360	.00570	-.00330	-.00130	-.00020	.01060	-.02670
2.005	27.740	.96640	.12120	.00570	-.00340	-.00120	-.00010	.00490	-.02940
GRADIENT		.04006	-.00313	-.00601	-.00026	-.00000	-.00006	-.01949	-.00040

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TABULATED SOURCE DATA -MES 86-706 (0443)

(ABT007) (24 AUG 73)

MES 86-706 0443 B10 C5 D7 NS P4 WATE16 VRS

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = .000 SPDRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -20.000 ELVN-R = -20.000

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.4600 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 DREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 26/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.598	-2.116	-4.2670	.12100	.19540	.00060	-.00010	.00080	.33530	-.00600
.601	-.096	-.32590	.12490	.19290	.00260	.00040	.00060	.32710	-.00660
.602	2.007	-.24550	.12430	.19660	.00360	-.00060	-.00290	.32520	-.00660
.601	4.027	-.13490	.11900	.19040	.00370	-.00040	-.00200	.31430	-.00590
.601	6.150	-.03250	.11150	.19050	.00410	-.00030	.00000	.30560	-.00590
.601	8.156	.07290	.10000	.18920	.00690	-.00110	-.00160	.26790	-.00590
.601	10.240	.18590	.09280	.18970	.00740	-.00090	-.00210	.27760	-.00590
.602	12.270	.29640	.08470	.18380	.00720	-.00060	-.00040	.26590	-.00440
.602	14.350	.39760	.09660	.18480	.00750	-.00060	.00030	.25060	-.00290
.601	16.490	.51190	.08890	.17710	.00780	-.00030	-.00030	.21920	-.00220
.599	18.450	.61410	.09770	.17440	.00820	-.00030	-.00030	.21050	-.00150
.599	20.540	.72600	.09410	.16350	.00850	-.00030	.00030	.21240	.00150
.600	22.600	.81020	.09490	.19620	.00960	-.00060	-.00040	.21910	.00070
.600	24.640	.86350	.08810	.21780	.01060	-.00090	.00070	.19570	-.00220
.602	26.650	.85900	.08450	.24890	.01140	-.00040	-.00140	.17950	-.00660
GRADIENT		.04654	-.00032	-.00041	.00047	-.00009	-.00022	-.00315	.00001

RUN NO. 25/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.902	-1.904	-.40710	.16160	.22510	-.00920	.00240	.00410	.53230	-.01780
.903	.154	-.28330	.16020	.20990	-.00960	.00260	.00410	.51680	-.01610
.901	2.273	-.14620	.15560	.18760	-.00770	.00190	.00350	.47460	-.01560
.900	4.402	.00060	.15110	.16490	-.00780	.00150	.00260	.42550	-.01440
.903	6.463	.14330	.15060	.14600	-.00770	.00170	.00270	.40760	-.01220
.903	8.559	.27090	.15160	.12850	-.00650	.00140	.00300	.38460	-.01220
.902	10.660	.40920	.14920	.10540	-.00470	.00060	.00300	.31790	-.01110
.900	12.710	.52080	.14700	.09590	-.00440	.00030	.00310	.25300	-.01110
.900	14.760	.60750	.15090	.09660	-.00150	-.00040	.00310	.22360	-.01160
.901	16.910	.69300	.15230	.10340	-.00090	-.00030	.00290	.21670	-.01090
.903	18.960	.78630	.15660	.11050	-.00060	-.00020	.00260	.22420	-.01090
.699	21.010	.88490	.15870	.13340	.00100	-.00010	.00250	.22670	-.01560
.699	23.090	.92630	.16320	.16290	.00450	-.00030	.00250	.23000	-.01030
.903	25.140	.96610	.16610	.20040	.00430	-.00160	-.00150	.22560	-.01530
.902	27.190	1.00000	.15700	.22500	.01060	.00040	-.00120	.17410	-.01610
GRADIENT		.06470	-.00171	-.00962	.00029	-.00016	-.00024	-.01725	.00001

DATE 20 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

(ASTD07) (24 AUG 73)

AMES 66-706 0443 B10 C5 D7 M3 F4 W07E18 YMR3

PARAMETRIC DATA

BETA = .070 ELEVON = -20.000
 AIRLON = .000 SPOBRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -20.000 ELVN-R = -20.000

REFERENCE DATA

SREF = 2000.0000 50.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 24/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	O/E	O/R
1.199	-1.806	-28290	.20820	.18060	-.00610	.00190	.00290	.49120	-.01800
1.202	.299	-1.14850	.20440	.15110	-.00790	.00170	.00210	.43480	-.01240
1.206	2.382	-.02150	.20340	.12340	-.00820	.00070	.00190	.39430	-.01890
1.198	4.970	.10770	.21200	.10210	-.00670	.00120	.00190	.35960	-.00590
1.201	6.629	.2.890	.20710	.06370	-.00770	.00120	.00230	.33390	-.01260
1.202	6.705	.33430	.19790	.07350	-.00630	.00090	.00190	.30910	-.00230
1.202	10.830	.45210	.19510	.06200	-.00620	.00110	.00170	.28580	.00180
1.202	12.660	.56340	.19130	.04220	-.00460	.00090	.00150	.26760	-.00410
1.199	14.970	.66890	.18730	.02700	-.00660	.00130	.00250	.22790	-.01240
1.198	17.090	.80740	.18420	.02650	-.00490	.00060	.00230	.17340	-.01520
1.201	19.170	.91200	.18230	.02370	-.00670	.00140	.00250	.13030	-.00690
1.200	21.280	.99430	.17610	.03240	-.00660	.00240	.00220	.08330	.00150
1.199	23.350	1.06800	.16940	.03070	-.00280	.00010	.00210	.06720	-.00650
1.200	25.390	1.10400	.16400	.07990	-.00390	-.00390	.00060	.06720	-.02580
1.200	27.430	1.13100	.15360	.11250	.00280	-.00160	.00030	.07000	.00370
GRADIENT		.06122	-.00364	-.01240	.00028	-.00014	-.00014	-.02050	.00175

RUN NO. 23/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	O/E	O/R
1.500	-1.848	-.20320	.19130	.11220	-.00660	.00060	.00190	.37640	-.02590
1.501	.138	-.09950	.18760	.09380	-.00660	.00060	.00200	.34070	-.02590
1.500	2.231	.01220	.18390	.07640	-.00750	.00060	.00200	.30790	-.02590
1.501	4.308	.10410	.18020	.05940	-.00750	.00060	.00230	.27190	-.02590
1.503	6.489	.20130	.17590	.04700	-.00660	.00060	.00170	.23830	-.02590
1.501	8.336	.29780	.17010	.03710	-.00700	.00060	.00170	.21960	-.02590
1.502	10.640	.40170	.16930	.02490	-.00640	.00070	.00210	.19480	-.02590
1.501	12.670	.49920	.16760	.01370	-.00670	.00060	.00170	.15300	-.02590
1.502	14.870	.59680	.16290	.00610	-.00740	.00060	.00160	.11030	-.02590
1.502	16.850	.69220	.16070	.00050	-.00470	-.00020	.00130	.07340	-.02590
1.500	18.970	.79210	.15850	-.00510	-.00460	-.00020	.00160	.04240	-.02590
1.500	21.090	.89060	.15690	-.00670	-.00420	-.00030	.00130	.01300	-.02590
1.500	23.170	.98660	.15460	-.00650	-.00350	-.00030	.00130	-.00960	-.02590
1.499	25.230	1.06500	.14960	-.00710	-.00280	-.00020	.00190	-.02740	-.02590
1.499	27.340	1.16500	.14260	.00330	-.00230	-.00020	.00190	-.03700	-.02590
GRADIENT		.04906	-.00170	-.00642	-.00016	.00001	.00006	-.01666	.00007

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TABULATED SOURCE DATA ANES 66-706 (043)

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ANES 66-706 043 B:D C5 D7 M3 P4 W07E18 VSR5

(ABTC:17) (24 AUG 75)

REFERENCE DATA

SHE7 = 2990.0000 54.17. 10RP = 1076.4800 IN.
 1AC7 = 474.8000 IN. 1MRP = .0000 IN.
 SHE7 = 936.6000 IN. 2MRP = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .070 ELEVON = -20.000
 AILUON = .000 SPOONK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -20.000 ELVN-R = -20.000

PARAMETRIC DATA

RUN NO. 22/ 0 RVL = 2.44 GRADIENT INTERV. = -5.00/ 5.00

WACH	ALPHA	ON	CA	CLM	CY	CTM	COL	OE	OR
1.999	-1.417	-12820	.19780	.05780	-.00390	.00040	.00090	.26600	-.01380
1.999	.609	-.04950	.13500	.04990	-.00970	.00030	.00090	.22960	-.01990
2.002	2.727	.03200	.19120	.03410	-.00950	-.00010	.00090	.19060	-.01910
2.002	4.799	.10860	.14410	.02320	-.00470	-.00080	.00100	.15190	-.01420
1.999	6.866	.16670	.14160	.01630	-.00910	.00000	.00100	.12390	-.01460
1.999	6.806	.26370	.13730	.00970	-.00490	.00010	.00110	.10310	-.01460
2.002	9.983	.30370	.13430	.00590	-.00490	.00010	.00090	.08690	-.01510
2.002	11.030	.34110	.13270	.00290	-.00360	-.00010	.00060	.07340	-.01640
2.002	13.060	.41660	.13270	.00090	-.00390	-.00010	.00070	.04690	-.01470
2.002	15.200	.49690	.13270	-.00320	-.00420	-.00020	.00070	.03030	-.01420
2.002	17.280	.57680	.12700	-.00510	-.00440	-.00010	.00050	.01590	-.01420
2.002	19.350	.66020	.12360	-.00710	-.00390	-.00010	.00070	.00070	-.01690
2.002	21.390	.74500	.12230	-.00760	-.00490	-.00050	.00070	-.01670	-.02000
2.002	23.510	.83420	.11780	-.01040	-.00370	-.00090	.00060	-.03320	-.02090
2.002	25.560	.92190	.11290	-.01020	-.00360	-.00010	.00060	-.04480	-.02220
1.999	27.700	1.01400	.10600	-.01160	-.00440	-.00010	.00110	-.05370	-.02710
1.999	GRADIENT	.03764	-.00204	-.00526	.00017	-.00011	.00001	-.01835	-.00004

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TABULATED SOURCE DATA ARES 66-706 (0443)

ARES 66-706 0443 810 C5 D7 NO F4 107E10 VHS

(AST008) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLUON = 5.000 SPOOK = 34.900
 BOOPLP = -14.700 RUDDER = .000
 ELVN-L = 5.000 ELVN-R = -5.000

REFERENCE DATA

SREF = 2660.0000 50.FT. YMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 RREF = 936.6000 IN. YMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 31/0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QCE	QCR
.593	-2.070	-1.0370	.09720	.03680	-.01920	.00340	.01730	.11200	-.01440
.593	.035	-.00440	.09760	.03760	-.01930	.00360	.01780	.11140	-.01510
.593	2.149	.06680	.09470	.03900	-.01960	.00370	.01960	.11790	-.01380
.599	4.271	.19380	.08910	.03850	-.02050	.00340	.02030	.11480	-.01130
.601	6.287	.29820	.07960	.03680	-.02090	.00360	.02120	.10430	-.01270
.600	8.415	.40970	.06970	.03570	-.02020	.00350	.01970	.09040	-.01120
.600	10.450	.52600	.06940	.02910	-.02130	.00500	.02400	.06760	-.00920
.600	12.450	.61160	.07860	.02670	-.01870	.00310	.01900	.04430	-.00630
.599	14.500	.71170	.08200	.02280	-.01630	.00320	.01930	.01050	-.00660
.598	16.610	.83190	.08510	.01490	-.01640	.00350	.01620	-.01580	-.00680
.599	18.630	.92610	.08430	.01370	-.01310	.00320	.01320	-.02450	-.00820
.599	20.750	1.06800	.08090	.01000	-.00740	.00240	.01670	-.03580	-.00930
.599	22.790	1.13300	.07760	.00920	-.00740	.00270	.01710	-.04610	-.00980
.599	24.750	1.11500	.07350	.00770	.00940	-.00120	.00160	-.05430	-.01040
.598	26.780	1.04800	.07800	.00540	.00970	.00040	.00450	-.04130	-.01960
GRADIENT		.04663	-.00130	.00031	-.00019	.00000	.00051	.00070	.00051

RUN NO. 30/0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QCE	QCR
.899	-1.766	-.09730	.11510	.04500	-.02220	.00610	.01420	.17480	-.02280
.901	.261	.02090	.11500	.03440	-.02020	.00540	.01350	.16690	-.02160
.899	2.449	.12560	.11610	.03320	-.01840	.00480	.01290	.15380	-.02160
.901	4.587	.24690	.11760	.02790	-.01680	.00320	.01520	.17150	-.01990
.902	6.632	.35360	.11650	.02220	-.01650	.00320	.01730	.16230	-.01660
.901	8.695	.44860	.12250	.01770	-.01490	.00460	.01530	.14780	-.01720
.900	10.790	.54810	.12390	.01000	-.01530	.00370	.01600	.11230	-.01610
.902	12.680	.66630	.12700	-.00330	-.01170	.00220	.01860	.05120	-.01490
.902	14.930	.76630	.13190	-.00610	-.01000	.00190	.01960	.02670	-.01530
.899	17.030	.87040	.13770	-.00430	-.00430	.00020	.01930	-.00170	-.01500
.899	19.120	.96660	.14200	-.00360	-.00060	-.00010	.01680	-.03930	-.01600
.904	21.130	1.03800	.14160	.02110	.00490	-.00300	.01510	-.05760	-.02180
.900	23.330	1.06000	.14550	.05760	.03250	-.00630	.00440	-.10170	-.02570
.902	25.250	1.12600	.14860	.06370	.01930	-.00450	.00630	-.11310	-.02450
.901	27.320	1.20170	.14830	.09240	.01690	-.00210	.00600	-.13390	-.01900
GRADIENT		.05331	.00041	-.00246	.00059	-.00015	.00012	-.00107	.00046

(ASTD08) (24 AUG 73)

AMES 66-706 0A43 B10 C5 D7 M3 P4 W87E18 V585

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLUON = 5.000 SPDRBK = 54.900
 BODYLP = -14.800 RUDDCK = .000
 ELVN-L = 5.000 ELVN-R = -5.000

REFERENCE DATA

WAT = 8990.0000 36.00 FT. 1000P = 1076.4800 IN.
 WAT = 474.6000 IN. 1000P = .0000 IN.
 WAT = 936.6000 IN. 2000P = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 28/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CEL	CHE	CNR
1.200	-1.677	-0.07450	.17030	.04700	-0.00660	.00160	.01310	.10400	-.02960
1.202	.404	.04790	.17130	.02480	-0.00640	.00130	.01270	.10390	-.02950
1.203	2.345	.16640	.17130	.03340	-0.00760	.00060	.01290	.13660	-.02640
1.200	4.616	.28510	.17110	-.01310	-0.00510	.00010	.01290	.10400	-.02410
1.202	6.729	.40060	.17060	-.03030	-0.00690	.00060	.01390	.07090	-.02360
1.201	8.621	.50930	.17030	-.04270	-0.01020	.00160	.01440	.03490	-.02040
1.201	10.670	.61660	.17170	-.05130	-0.00870	.00130	.01490	.00050	-.02160
1.201	12.990	.74110	.17280	-.06480	-0.00890	.00110	.01400	-.04040	-.01940
1.201	15.060	.86930	.17400	-.08230	-0.00460	-0.00060	.01640	-.07990	-.02040
1.200	17.270	.96640	.17540	-.09130	-0.00240	-0.00140	.01440	-.13460	-.01930
1.199	19.290	1.06700	.17470	-.09710	-0.00180	-0.00170	.01340	-.17760	-.01760
1.201	21.360	1.16200	.16680	-.08350	-0.00080	-0.00160	.01190	-.16790	-.01710
1.200	23.460	1.21000	.16130	-.05230	.00030	-0.00340	.00920	-.20190	-.02640
1.199	25.460	1.21700	.15470	-.00440	.01330	-0.00650	.00920	-.16170	-.00630
1.199	27.560	1.28800	.14650	.00940	.00650	-0.00300	.00810	-.22440	-.01760
GRADIENT	.05696	.00009	.00009	-.00967	.00034	-.00025	-.00002	-.01424	.00066

RUN NO. 28/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CEL	CHE	CNR
1.496	-1.663	-.06900	.16930	.02380	-0.00510	-.00070	.00820	.14300	-.02990
1.501	.210	.02720	.16690	.01000	-0.00590	-.00070	.00790	.11010	-.02620
1.502	2.300	.12490	.16320	-.00360	-0.00510	-.00090	.00790	.07890	-.02670
1.502	4.377	.22140	.16320	-.02020	-0.00500	-.00120	.00840	.04730	-.02930
1.501	6.521	.32230	.15970	-.03340	-0.00540	-.00090	.00840	.01970	-.02620
1.501	8.596	.41930	.15630	-.04330	-0.00560	-.00100	.00900	-.01290	-.02760
1.501	10.690	.52370	.15920	-.05960	-0.00640	-.00120	.00970	-.05170	-.02760
1.501	12.740	.62300	.16010	-.07190	-0.00660	-.00140	.00970	-.09200	-.02620
1.501	14.870	.71960	.15610	-.07680	-0.00650	-.00170	.00960	-.12390	-.02430
1.500	17.010	.82080	.15310	-.08700	-0.00520	-.00120	.00960	-.16160	-.02130
1.500	19.050	.91670	.15300	-.09320	-0.00430	-.00060	.00960	-.19660	-.01740
1.500	21.140	1.01500	.15310	-.09690	-0.00300	-.00030	.00950	-.22460	-.02130
1.499	23.260	1.11100	.15190	-.09870	-0.00390	-.00020	.01020	-.23970	-.02130
1.500	25.390	1.20500	.14920	-.09380	-0.00440	-.00020	.01230	-.24360	-.02170
1.500	27.420	1.29700	.14450	-.09210	-0.00360	-.00040	.01200	-.26140	-.03770
GRADIENT	.04656	-.00082	-.00082	-.00736	.00005	-.00006	.00003	-.01531	.00003

DATE 20 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

ANES 66-706 0443 BID C5 D7 NS F4 W07E1A V0K5

(AST008) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATTUNON = 5.000 SPORERK = 54.900
 SCOPUP = -14.500 RUDDER = .000
 ELVN-L = 5.000 ELVN-R = -5.000

REFERENCE DATA

SREF = 2000.0000 50.FT. XRRP = 1076.4000 IN.
 LREF = 474.0000 IN. YRRP = .0000 IN.
 BREF = 936.0000 IN. ZRRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 27/ 0 RN-L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	ON	CA	CLM	CY	CW	CBL	OE	OR
2.000	-1.353	-.04310	.14260	.00130	-.00400	-.00090	.00490	.07050	-.01690
2.003	.092	.03150	.14250	-.00720	-.00450	-.00110	.00490	.04790	-.01750
2.000	2.760	.10720	.14210	-.01750	-.00430	-.00110	.00460	.02310	-.01640
2.000	4.832	.16270	.14010	-.02690	-.00440	-.00100	.00470	-.00030	-.01790
2.000	6.865	.23660	.13800	-.03500	-.00410	-.00100	.00470	-.02350	-.01790
2.003	9.002	.33430	.13680	-.04230	-.00390	-.00100	.00490	-.04720	-.01600
2.003	11.050	.41000	.13210	-.04650	-.00470	-.00110	.00490	-.07140	-.01690
2.003	13.130	.46830	.13320	-.05170	-.00460	-.00110	.00330	-.09200	-.01600
2.003	15.220	.56560	.12920	-.05570	-.00420	-.00100	.00350	-.11240	-.01620
2.003	17.310	.64850	.12650	-.05910	-.00480	-.00100	.00360	-.13250	-.01570
2.003	19.360	.73610	.12420	-.06330	-.00410	-.00150	.00390	-.15380	-.01640
2.003	21.460	.82440	.12190	-.06720	-.00360	-.00210	.00410	-.17730	-.02340
2.003	23.550	.91160	.11990	-.07090	-.00290	-.00250	.00430	-.19980	-.02360
2.003	25.620	1.00500	.11610	-.07420	-.00260	-.00320	.00460	-.21700	-.02810
2.001	27.710	1.10000	.11330	-.08140	-.00270	-.00360	.00490	-.23290	-.03130
2.001	GRADIENT	.03652	-.00140	-.00140	-.00005	-.00001	-.00003	-.01153	.00009

DATE 20 SEP 73

TABULATED SOURCE DATA ANES 66-T06 (0A43)

ANES 66-T06 0A43 B10 C5 D7 M5 P4 W8T516 V5R5

(AST009) (24 AUG 73)

REFERENCE DATA

SREF = 2490.0000 54. FT. XMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = 5.000 SPOBRK = 34.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -5.000 ELVN-R = -15.000

RUN NO. 36/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	C-E	CHR
.800	-2.185	-.28270	.09700	.13030	-.00240	.00310	.00970	.22090	-.02250
.801	.019	-.17920	.10070	.12710	-.00490	.00290	.00970	.21540	-.02180
.805	2.063	-.09130	.09670	.13190	-.00990	.00350	.00910	.22080	-.01890
.806	4.072	.00570	.09280	.12960	-.00950	.00350	.00900	.21430	-.01490
.805	6.215	.11050	.08410	.12930	-.00960	.00370	.00940	.21020	-.01500
.801	8.169	.21690	.07440	.12720	-.00960	.00360	.00850	.19190	-.01510
.802	10.280	.32990	.07270	.12520	-.00770	.00280	.00910	.17400	-.01440
.801	12.370	.43760	.07600	.11850	-.00930	.00330	.01020	.15570	-.01360
.801	14.520	.53670	.07820	.11560	-.00920	.00350	.01270	.13590	-.01440
.801	16.540	.66060	.08180	.10440	-.01010	.00310	.01470	.10830	-.01140
.802	18.560	.77640	.07680	.09870	-.01050	.00240	.01630	.10140	-.00910
.802	20.620	.89360	.07400	.09910	-.00940	.00340	.01720	.09540	-.00760
.803	22.660	.99710	.07090	.10680	-.00780	.00320	.01690	.08070	-.00440
.802	24.720	1.03600	.06670	.13550	-.00720	.00150	.01130	.05470	-.01510
.801	26.710	.97830	.06740	.18260	.01310	.00150	.00280	.05740	-.02120
GRADIENT		.04574	-.07070	.00015	-.00132	.00009	-.00013	-.00071	.00154

RUN NO. 35/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	C-E	CHR
.902	-1.623	-.26190	.12440	.15320	-.00960	.00740	.01610	.37730	-.02490
.903	.296	-.12470	.12730	.13400	-.01130	.00700	.01590	.35040	-.02430
.900	2.368	-.00180	.12460	.11770	-.00700	.00550	.01280	.32830	-.02450
.901	4.480	.13150	.12310	.10280	-.00440	.00500	.00940	.30130	-.02490
.902	6.371	.24580	.12320	.09430	-.00240	.00430	.00780	.28140	-.02380
.903	8.371	.36030	.12750	.08190	.00160	.00370	.00540	.24680	-.02280
.902	10.880	.46850	.12820	.07300	.00190	.00330	.00540	.22800	-.02380
.903	12.870	.55570	.13120	.06790	.00130	.00390	.00720	.21810	-.02100
.903	14.890	.63370	.13100	.06690	.00460	.00480	.00890	.19720	-.01880
.901	17.070	.75740	.13280	.07180	.01020	.00080	.00980	.17660	-.02030
.901	19.020	.84960	.13550	.07740	.01360	-.00010	.00700	.16180	-.02280
.902	21.120	.92040	.13660	.07900	.01370	-.00070	.00920	.15940	-.02400
.902	23.240	.98080	.14020	.14200	.02740	-.00250	.00590	.13800	-.03100
.901	25.200	1.01300	.14110	.16780	.03480	-.00290	.00490	.12260	-.02990
.901	27.230	1.06630	.14110	.17490	.03100	-.00030	.00710	.10430	-.02530
GRADIENT		.06212	-.00031	-.00799	.00035	-.00041	-.00106	-.01202	-.00001

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(ABT009) (24 AUG 73)

ANES 66-706 0443 B10 C5 D7 M3 F4 W8T18 V8S5

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 ALLUON = 5.000 SPOBRK = 54.900
 BOOFLP = -14.200 RUDDER = .000
 ELVN-L = -5.000 ELVN-R = -15.000

REFERENCE DATA

SKEF = 2690.0000 90. FT. YMRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 34/ 0 RNVL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.200	-1.826	-1.7520	.1730	.1180	.00800	.01110	.01110	.38660	-.01800
1.203	.364	-.03930	.17800	.09080	.00660	.01000	.01000	.33680	-.02580
1.201	2.303	.08460	.17730	.06630	-.00840	.00810	.01040	.30020	-.02750
1.202	4.997	.20890	.17800	.04440	.00720	.00520	.01150	.27350	-.02900
1.201	6.744	.32500	.17480	.02750	.00650	.00510	.01160	.24220	-.02830
1.202	8.982	.44580	.17220	.01480	.00530	.00410	.01030	.20350	-.02680
1.201	10.980	.54510	.17180	.00750	.00460	.00380	.00870	.16420	-.02460
1.199	13.080	.68040	.17050	.00380	.00360	.00280	.00730	.12290	-.02340
1.203	15.270	.78070	.16950	-.01130	.00250	.00380	.01000	.08240	-.02170
1.201	17.320	.90190	.16870	-.02540	.00310	.00360	.01130	.05090	-.02340
1.199	19.580	1.00800	.16810	-.02580	.00300	.00440	.01200	.01730	-.01690
1.199	21.550	1.08200	.16480	-.01220	.00440	.00370	.00920	-.00960	-.01310
1.199	23.650	1.14900	.15600	.00840	.01030	.00390	.00730	-.03810	-.02540
1.200	25.780	1.15400	.15170	.05520	.02240	-.00470	.00480	-.02200	-.01080
1.201	27.750	1.20700	.14030	.07100	.01270	.00310	.00610	-.02900	-.02420
GRADIENT		.05962	-.00038	-.01159	.00069	-.00236	.00017	-.01730	-.00152

RUN NO. 35/ 0 RNVL = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.499	-1.937	-1.3200	.17380	.07430	-.00080	.00280	.00620	.30080	-.03340
1.501	.188	-.02700	.17010	.05490	-.00030	.00210	.00830	.28210	-.03130
1.502	2.435	.08010	.16710	.03570	.00130	.00140	.00820	.21530	-.02940
1.502	4.467	.17640	.16350	.02070	.00220	.00180	.00820	.17740	-.02910
1.502	6.576	.27480	.16010	.00800	.00170	.00110	.00780	.15170	-.02870
1.503	8.703	.37410	.15780	-.00400	.00250	.00090	.00630	.12190	-.02840
1.496	10.730	.47730	.15610	-.01630	.00390	.00000	.00480	.08470	-.03180
1.499	12.640	.57780	.15570	-.02590	.00570	-.00040	.00430	.04730	-.03090
1.499	14.930	.67260	.15380	-.03340	.00520	-.00060	.00350	.01440	-.02800
1.499	17.080	.77110	.15200	-.03920	.00540	-.00080	.00300	-.01690	-.02380
1.499	19.340	.87470	.14980	-.04570	.00540	-.00080	.00280	-.03270	-.02160
1.499	21.370	.96820	.14840	-.04750	.00570	-.00080	.00270	-.07720	-.02580
1.499	23.440	1.05900	.14670	-.04580	.00480	-.00050	.00260	-.09260	-.02110
1.502	25.650	1.15500	.14210	-.04050	.00380	-.00030	.00250	-.11330	-.02540
1.501	27.690	1.24000	.13590	-.03350	.00370	-.00030	.00230	-.12360	-.02470
GRADIENT		.04764	-.00157	-.00635	.00049	-.00026	-.00000	-.01932	-.00069

DATE 28 SEP 73 TABULATED SOURCE DATA ANES 66-706 (0443)

ANES 66-706 0443 B10 C3 D7 M3 F4 W8TE18 V5R5

(ABT009) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 ALLRON = 5.000 SPOBRK = 54.900
 BOOPLP = -14.200 RUDSER = .000
 ELVN-L = -5.000 ELVN-R = -15.000

REFERENCE DATA

SREF = 2690.0000 50.FT. XREF = 1076.4800 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 32/ 0 RV/L = 2.4 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QCE	QCR
1.996	-1.620	-.08770	.14430	-.03080	-.00210	.00080	.00480	.14880	-.02170
2.004	.795	.00260	.14100	.01880	-.00070	.00020	.00480	.15370	-.02270
2.001	2.602	.07620	.14090	.00920	-.00060	.00030	.00480	.11640	-.02310
1.996	4.679	.15440	.13640	-.00060	.00000	-.00010	.00440	.08450	-.02220
1.996	6.615	.22350	.12640	-.00900	.00070	.00010	.00440	.05960	-.02220
2.002	8.995	.30700	.13150	-.01560	.00110	.00020	.00430	.03350	-.02210
2.002	11.000	.37840	.13040	-.02010	.00330	-.00030	.00430	.01230	-.02300
1.999	13.170	.45880	.12910	-.02460	.00290	-.00040	.00430	-.00830	-.02250
1.999	15.220	.53550	.12600	-.02850	.00340	-.00040	.00430	-.02710	-.02160
1.999	17.390	.62010	.12260	-.03290	.00380	-.00060	.00440	-.04540	-.02210
2.004	19.430	.71630	.11970	-.03700	.00370	-.00130	.00460	-.06340	-.02410
2.001	21.460	.78960	.11620	-.03480	.00570	-.00130	.00460	-.08220	-.02770
1.999	23.560	.87560	.11360	-.03680	.00560	-.00170	.00500	-.10010	-.02850
1.999	25.580	.96200	.10960	-.03860	.00650	-.00200	.00530	-.11060	-.03250
1.999	27.690	1.05700	.10510	-.04170	.00680	-.00230	.00670	-.12190	-.03700
		.03720	-.00111	-.00482	.00030	-.00009	-.00006	-.01622	-.00009

GRADIENT

DATE 28 SEP 75

TABULATED SOURCE DATA ARES 66-706 (0443)

ARES 66-703 0443 B10 C5 D7 M3 W87E10 V5R5

(ABT010) (24 AUG 75)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
SPORR = 54.977
ELVN-L = .000
ELVN-R = .070

REFERENCE DATA

SREF = 2890.0000 50.00 FT. YMRP = 1076.4800 IN.
LREF = 374.8000 IN. YMRP = .0000 IN.
BREF = 936.6000 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

RUN NO. 36/0 R/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
1.902	-1.906	-0.0620	.1810	.02270	.00020	-.00180	.00080	.07100	-.03100
1.903	.217	.03310	.16220	.00760	-.00050	-.00130	.00060	.04370	-.02920
1.903	2.366	.13000	.18090	.00710	-.00070	-.00130	.00170	.01740	-.03010
1.903	4.466	.22600	.16790	-.02100	-.00010	-.00180	.00190	-.00970	-.02970
1.902	6.566	.32920	.15650	-.03270	-.00070	-.00080	.00190	-.03690	-.02920
1.902	8.728	.42910	.15660	-.04590	-.00140	-.00090	.00220	-.07280	-.02920
1.904	10.860	.53110	.15720	-.05960	-.00180	-.00080	.00250	-.11500	-.03010
1.904	12.790	.62210	.15900	-.06440	-.00180	-.00090	.00220	-.15170	-.03010
1.902	15.010	.72100	.15700	-.07530	-.00110	-.00090	.00180	-.21930	-.02480
1.902	16.940	.81010	.15520	-.08120	-.00090	-.00120	.00190	-.25690	-.02480
1.902	19.110	.91110	.15450	-.08780	-.00090	-.00150	.00100	-.26630	-.02270
1.902	21.250	1.01100	.15520	-.08930	-.00040	-.00150	.00170	-.30100	-.02440
1.901	23.290	1.10200	.15350	-.08550	-.00240	-.00150	.00220	-.31170	-.02620
1.901	25.430	1.19400	.14910	-.08180	-.00040	-.00140	.00220	-.32620	-.03790
1.901	27.440	1.28300	.14510	-.07790	-.00180	-.00190	.00200	-.32620	-.03790
1.999	GRADIENT	.04606	-.00019	-.00687	-.00005	.00406	.00020	-.01262	-.00014

RUN NO. 37/0 R/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
1.997	-1.557	-.04800	.14270	.00110	-.00150	-.00090	.00050	.02490	-.01980
2.003	.734	.03430	.14010	-.00920	-.00270	-.00040	.00040	.00260	-.02050
2.006	2.855	.11120	.14120	-.01260	-.00280	-.00060	.00030	-.01860	-.02010
2.006	4.641	.18330	.13950	-.02610	-.00210	-.00070	.00030	-.03680	-.02060
2.001	7.071	.26500	.13690	-.03440	-.00200	-.00060	.00020	-.08320	-.01980
2.001	8.946	.33130	.13570	-.03910	-.00200	-.00080	.00070	-.06440	-.02000
2.001	11.130	.40810	.13450	-.04340	-.00140	-.00050	.00070	-.10480	-.02140
2.001	13.150	.48660	.13540	-.04780	-.00120	-.00050	.00070	-.12960	-.01980
2.001	15.280	.56500	.13310	-.05120	-.00280	-.00030	.00070	-.15060	-.01870
2.003	17.530	.64500	.12710	-.05420	-.00180	-.00030	.00070	-.17270	-.01930
2.001	19.380	.73070	.12590	-.05650	-.00180	-.00030	.00070	-.19720	-.02200
2.001	21.530	.81920	.12510	-.05940	-.00300	-.00040	.00060	-.22250	-.02600
2.000	23.370	.90600	.12280	-.06210	-.00260	-.00060	.00050	-.24640	-.02690
2.000	25.640	.99750	.11860	-.06470	-.00260	-.00090	.00030	-.26460	-.02870
2.000	27.840	1.09200	.11420	-.06940	-.00240	-.00100	.00140	-.26330	-.03500
2.001	GRADIENT	.03616	-.00040	-.00426	.00006	.00003	-.00003	-.01051	-.00012

(ABT011) (24 AUG 75)

TABULATED SOURCE DATA ANES 66-706 (0A43)

ANES 66-706 0A43 B10 C5 D7 M3 P4 W8T216 VMS

DATE 20 SEP 75

PARAMETRIC DATA

BETA = .000 ELEVON = -16.900
 ALURON = 1.300 SP00AK = 94.900
 BODYLP = -14.200 RUDDER = .000
 ELVNL = -19.000 ELVNL-R = -18.000

REFERENCE DATA

WREF = 2660.0000 30. FT. 3MRP = 1078.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 956.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 43/ 0 RNL = 2.57 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CNE	CNR
.600	-2.133	-36920	.10620	.16010	-.00110	.00030	-.00800	.27300	-.01740
.604	-.103	-28700	.11110	.17470	-.00160	.00030	-.00160	.28350	-.00790
.608	1.967	-20310	.11060	.18070	.00010	.00000	-.00300	.26780	-.00660
.612	4.065	-.09330	.10640	.17240	-.00040	.00000	-.00020	.26050	-.00310
.616	6.066	.00310	.09730	.17760	-.00020	.00000	-.00160	.25860	-.00310
.620	8.213	.10900	.08560	.17770	.00290	-.00050	-.00330	.23630	-.00310
.624	10.270	.21470	.07890	.17750	.00330	-.00030	-.00460	.22480	-.00390
.628	12.260	.32260	.06250	.17420	.00450	-.00060	-.00410	.20590	-.00440
.632	14.360	.42430	.06310	.17080	.00470	-.00070	-.00300	.18720	-.00440
.636	16.450	.53670	.06620	.16380	.00390	-.00040	-.00100	.16280	-.00220
.640	18.520	.65130	.06420	.15630	.00210	.00030	.00110	.13650	-.00150
.644	20.560	.76980	.07930	.14860	.00080	.00060	.00360	.12800	.00000
.648	22.630	.87620	.07470	.14000	.00060	.00090	.00390	.14470	.00000
.652	24.660	.93530	.06760	.13440	.00040	.00040	.00350	.11790	-.00300
.656	26.700	.97660	.06620	.22750	.00480	.00070	.00380	.11500	-.00590
.660	GRADIENT	.04699	-.00043	-.00083	.00019	-.00003	.00220	-.00170	.00037

RUN NO. 42/ 0 RNL = 2.50 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CNE	CNR
.600	-1.924	-35900	.13920	.20220	-.00410	.00150	.00400	.43940	-.01710
.604	.166	-23290	.14120	.18650	-.00500	.00140	.00420	.43160	-.01540
.608	2.361	-.09260	.13650	.16550	-.00350	.00110	.00270	.39310	-.01540
.612	4.221	.04100	.13420	.14590	-.00240	.00090	.00250	.35240	-.01490
.616	6.923	.16310	.13270	.12710	-.00320	.00090	.00220	.32940	-.01210
.620	8.546	.26900	.13000	.11580	-.00130	.00000	.00180	.29570	-.01360
.624	10.660	.41910	.13580	.09620	-.00130	.00000	.00100	.25340	-.01150
.628	12.730	.50430	.13490	.09890	-.00240	.00050	.00070	.22910	-.01150
.632	14.810	.56710	.13870	.10090	.00120	.00100	.00160	.21290	-.01260
.636	16.890	.66570	.13620	.10430	.00230	.00120	.00110	.21470	-.01150
.640	18.970	.76570	.13950	.10300	.00300	.00120	.00110	.20890	-.01210
.644	21.020	.86660	.14070	.13000	.00440	.00140	.00150	.20080	-.01540
.648	23.060	.91940	.14360	.16060	.00520	.00120	.00210	.19230	-.01670
.652	25.130	.93650	.14520	.20830	.01020	.00070	.00030	.17980	-.01960
.656	27.200	1.01500	.14620	.21890	.01040	.00010	-.00050	.15970	-.01340
.660	GRADIENT	.06354	-.00083	-.00699	.00031	-.00010	-.00029	-.01407	.00031

DATE 26 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0443)

ARES 66-706 0443 810 C5 D7 M3 F4 M87E16 VMRS

(ABTD11) (24 AUG 73)

REFERENCE DATA

SREF = 2490.0000 50. FT. XMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 934.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = -16.900
 AIRLON = 1.500 SPDRK = 94.900
 BOOPLP = -14.200 RUDDER = .000
 ELVLR = -19.000 ELVLR = -16.000

PARAMETRIC DATA

RUN NO. 45/0 RML = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OM
1.199	-1.779	-23790	.19230	.15870	-.00550	.00130	.00240	.42830	-.01480
1.202	.312	-.10650	.19180	.12640	-.00480	.00100	.00220	.37770	-.01280
1.202	2.458	.01800	.19070	.10310	-.00400	.00070	.00170	.33630	-.01090
1.199	4.517	.14230	.18790	.08110	-.00330	.00040	.00140	.31130	-.01000
1.200	6.613	.25510	.18520	.06620	-.00360	.00050	.00130	.28710	-.00910
1.201	8.779	.37200	.18260	.05280	-.00310	.00030	.00120	.26200	-.00910
1.202	10.650	.46820	.18000	.04010	-.00310	.00040	.00130	.22710	-.01690
1.200	12.940	.60790	.17760	.03470	-.00250	.00030	.00120	.19400	-.01640
1.201	15.000	.72080	.17460	.02180	-.00300	.00040	.00120	.15070	-.01640
1.201	17.120	.83870	.17230	.00980	-.00350	.00020	.00130	.10670	-.01460
1.201	19.210	.95550	.16990	.00680	-.00380	.00020	.00140	.07360	-.00780
1.201	21.300	1.02100	.16420	.01630	-.00300	.00010	.00130	.04600	-.00270
1.201	23.370	1.09000	.15860	.03740	-.00220	.00010	.00120	.01460	-.01190
1.201	25.410	1.09400	.15120	.04450	-.00140	.00030	.00130	.03170	-.01460
1.197	27.450	1.14300	.14190	.01910	.00000	.00130	.00130	.02250	-.00180
1.201	GRADIENT	.06024	-.00068	-.01179	.00032	-.00014	-.00012	-.01055	.00075

RUN NO. 40/0 RML = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OM
1.499	-1.687	-17220	.18380	.09750	-.00280	.00000	.00210	.33180	-.02480
1.501	.178	-.07580	.17920	.08000	-.00370	.00000	.00180	.29510	-.02310
1.502	2.271	.02840	.17680	.06210	-.00330	.00000	.00200	.25720	-.02440
1.502	4.364	.12630	.17190	.04710	-.00360	.00000	.00230	.22220	-.02570
1.501	6.463	.22310	.16770	.03410	-.00350	.00010	.00240	.19460	-.02580
1.501	8.603	.32940	.16180	.02280	-.00410	.00030	.00270	.16680	-.02480
1.501	10.620	.42490	.16060	.01060	-.00370	.00030	.00290	.13500	-.02480
1.501	12.720	.52560	.15640	.00110	-.00310	.00010	.00240	.09740	-.00790
1.501	14.790	.62290	.13490	.00630	-.00250	.00030	.00290	.06470	-.00790
1.501	16.930	.71820	.13210	.01070	-.00360	.00010	.00270	.03300	-.01410
1.501	19.080	.81340	.14950	.01970	-.00380	.00010	.00270	.00000	-.01630
1.501	21.080	.91100	.14830	.01860	-.00450	.00000	.00240	.00000	-.01540
1.499	23.180	1.00800	.14540	-.01740	-.00390	.00000	.00260	-.04620	-.01670
1.499	25.280	1.09700	.14270	-.01430	-.00310	-.00120	.00310	-.06330	-.01670
1.499	27.370	1.18300	.13430	-.00370	-.00250	-.00250	.00310	-.07600	-.03420
1.499	GRADIENT	.04811	-.00182	-.00619	-.00010	-.00001	.00006	-.01751	-.00019

DATE 28 SEP 73

TABULATED SOURCE DATA AKES 66-706 (0443)

AKES 66-706 0443 810 C5 D7 M3 P4 M07E18 VSR5

(AST011) (24 AUG 73)

PARAMETRIC DATA

BETA = .000 ELEVON = -18.500
 AILRON = 1.570 SPOBRK = 34.900
 BOOPLP = -14.800 RUDDER = .000
 ELVHL = -15.000 ELVH-R = -18.000

REFERENCE DATA

SRFP = 2000.0000 36. FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRFP = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 39/ 0 RVUL = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLM	CY	CYN	CBL	OAE	OR
2.003	-1.411	-1.1160	.15360	.04990	-.00320	-.00030	.00180	.23010	-.01640
2.000	.701	-.02990	.14000	.03670	-.00260	-.00060	.00120	.19110	-.01550
2.002	2.723	.04530	.14370	.02340	-.00260	-.00030	.00130	.15140	-.01550
2.002	4.778	.12310	.14090	.01630	-.00270	-.00030	.00140	.11930	-.01480
2.000	6.696	.20160	.13620	.00720	-.00260	-.00030	.00140	.09100	-.01480
2.000	8.942	.27670	.13270	.00130	-.00320	-.00000	.00130	.06600	-.01550
2.000	11.030	.35360	.12660	-.00350	-.00300	.00000	.00100	.04030	-.01590
2.002	13.110	.43250	.12690	-.00760	-.00340	.00000	.00100	.02110	-.01490
1.997	15.160	.50850	.12360	-.01060	-.00360	-.00010	.00090	.00420	-.01480
1.997	17.330	.59030	.12290	-.01220	-.00420	-.00010	.00090	-.01340	-.01480
1.999	19.330	.67060	.11660	-.01360	-.00300	-.00030	.00090	-.02970	-.01660
2.002	21.420	.75630	.11620	-.01460	-.00260	-.00070	.00100	-.02110	-.02110
2.002	23.520	.84250	.11230	-.01580	-.00250	-.00110	.00100	-.06500	-.02060
2.002	25.610	.93140	.10700	-.01650	-.00090	-.00160	.00100	-.07510	-.02320
2.002	27.690	1.02400	.10260	-.01790	-.00120	-.00150	.00170	-.08380	-.02980
			-.00209	-.00330	.00006	.00000	.00003	-.01807	.00026
			.03785						

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(ABT012) (13 SEP 73)

ANES 66-706 0443 B10 C5 D7 NS P4 LBTE10 VHS

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRCOW = .000 SPOORR = 34.900
 BOOPLP = .000 RUOCC = .000
 ELVH-L = .000 ELVH-R = .000

REFERENCE DATA

SIDE = 2890.0000 36.77. XMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 0/0 RVL = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OMR
.801	-2.106	-.09030	.06670	.03010	.00460	-.00100	-.00170	.06920	-.02390
.801	.015	.00600	.06740	.03060	.00460	-.00090	-.00180	.06890	-.02320
.801	2.137	.00950	.06480	.03300	.00460	-.00090	-.00230	.07150	-.02330
.801	4.241	.00770	.07910	.03060	.00490	-.00070	-.00240	.06480	-.02320
.801	6.275	.00740	.07040	.02710	.00500	-.00070	-.00230	.05400	-.02100
.802	8.284	.01740	.06050	.02640	.00670	-.00100	-.00220	.04050	-.02170
.801	10.420	.03220	.06500	.01990	.00650	-.00080	-.00120	.01520	-.02100
.801	12.420	.06280	.06960	.01600	.00710	-.00070	-.00060	-.00780	-.02100
.801	14.590	.07340	.07530	.01150	.00790	-.00060	-.00060	-.03560	-.01860
.801	16.670	.06640	.07920	.00250	.00660	-.00030	-.00100	-.06600	-.01600
.803	18.710	.09080	.07760	-.00990	.00690	-.00010	-.00160	-.07990	-.01790
.801	20.750	1.09900	.07340	-.00600	.00680	-.00040	-.00180	-.09510	-.01670
.801	22.780	1.17800	.07050	.00660	.00600	-.00060	-.00400	-.10800	-.01860
.801	24.780	1.18000	.06670	.04910	.01140	-.00050	-.00100	-.11140	-.02240
.802	26.780	1.09700	.07250	.10270	.00720	.00040	.00010	-.09580	-.02240
GRADIENT		.04656	-.00120	.00016	.00004	.00005	-.00012	-.00050	.00009

RUN NO. 0/0 RVL = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OMR
.801	-1.780	-.06780	.10910	.02530	.00730	-.00170	-.00130	.07430	-.03240
.802	.300	.04300	.10940	.01920	.00690	-.00160	-.00150	.06570	-.03060
.801	2.370	.13340	.10760	.02650	.00720	-.00150	-.00280	.12300	-.03020
.801	4.470	.24610	.10860	.02250	.00740	-.00150	-.00210	.11790	-.02630
.801	6.550	.35130	.10860	.01790	.00710	-.00150	-.00340	.06710	-.02670
.801	8.630	.44340	.11100	.01460	.00750	-.00140	-.00140	.06250	-.02690
.802	10.710	.55300	.11660	.00440	.00690	-.00150	-.00120	.02310	-.02500
.801	12.800	.65610	.11770	-.00660	.00690	-.00140	-.00040	-.04250	-.02400
.801	14.940	.77130	.12050	-.01800	.00550	-.00110	.00070	-.08140	-.02170
.802	17.000	.97640	.12460	-.03180	.00260	-.00040	.00060	-.12200	-.02120
.801	19.040	.98080	.12250	-.01950	.00260	-.00020	.00090	-.15970	-.02240
.801	21.150	1.10900	.13220	-.01800	.00350	-.00070	.00190	-.17440	-.02440
.801	23.180	1.12600	.13240	.01640	.00350	-.00040	.00220	-.15660	-.02970
.801	25.350	1.16700	.13650	.03170	.00220	.00140	.00120	-.16900	-.03290
GRADIENT		.04956	-.00013	-.00005	.00003	.00003	.00025	.00806	.00090

(AB1012) (13 SEP 75)

TABULATED SOURCE DATA ARES 66-706 (0A43)

ARES 66-706 0A43 B10 C5 D7 M0 P4 W0TE10 VHR5

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPORARK = 54.900
 BOOPLP = .000 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

REFERENCE DATA

WREF = 2090.0000 34.77. WREF = 1076.4000 IN.
 LREF = 474.8000 IN. WREF = .0000 IN.
 BREF = 936.6000 IN. WREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 0/0 RVL = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLK	CY	CYN	CBL	OE	OR
1.201	-1.715	-0.0560	.16150	.03330	.00220	-.00120	-.00060	.07740	-.03320
1.201	.394	.08020	.16330	.01280	.00160	-.00120	-.00020	.05770	-.03160
1.200	2.541	.16590	.16430	-.01120	.00230	-.00110	.00000	.03300	-.03000
1.200	4.574	.29600	.16320	-.02960	.00090	-.00060	.00060	.00940	-.02990
1.202	6.766	.41610	.16490	-.04280	.00010	-.00050	.00230	-.02060	-.02970
1.201	8.879	.52720	.16500	-.05370	.00130	-.00020	-.00020	-.05540	-.02760
1.202	10.910	.63150	.16590	-.06430	-.00050	-.00020	.00060	-.09670	-.02440
1.202	12.960	.74950	.16660	-.07530	.00060	-.00030	.00030	.13340	-.02530
1.199	15.110	.86490	.16800	-.09670	-.00040	-.00010	.00030	-.18390	-.02440
1.196	17.220	.99820	.16850	-.10590	.00060	-.00020	.00020	-.23470	-.02540
1.201	19.340	1.10270	.16600	-.11360	.00160	-.00060	-.00030	-.27600	-.022
1.196	21.470	1.17500	.15970	-.09810	.00150	-.00110	.00030	-.25240	-.01360
1.196	23.530	1.24600	.15760	-.07980	.00160	.00060	.00040	-.29060	-.01930
1.202	25.460	1.29000	.14880	-.03380	.00220	-.00130	.00030	-.26750	-.01750
1.196	27.650	1.33000	.14400	-.01850	.00260	-.00070	-.00070	-.29730	-.01010
GRADIENT		.05636	.00056	-.00114	-.00016	.00036	.00021	-.01046	.00056

RUN NO. 0/0 RVL = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLK	CY	CYN	CBL	OE	OR
1.496	-1.640	-.05960	.16110	.01740	.00300	-.00140	-.00040	.05460	-.03240
1.501	.200	.04	.16110	.00150	.00280	-.00140	-.00030	.02810	-.03150
1.502	2.330	.140	.15670	-.01590	.00230	-.00150	.00060	.00440	-.03370
1.496	4.390	.23610	.15730	-.02970	.00140	-.00120	.00080	-.02210	-.03450
1.500	6.540	.33670	.15550	-.04340	.00130	-.00070	.00070	-.05000	-.03280
1.500	8.800	.43590	.15400	-.05660	.00070	-.00020	.00020	-.08560	-.03240
1.500	10.720	.54220	.15490	-.07280	.00030	-.00030	.00010	-.12910	-.03210
1.500	12.830	.64180	.15340	-.08500	.00100	-.00060	.00010	-.16610	-.03260
1.500	14.670	.73470	.15320	-.09170	.00160	-.00100	.00070	-.19670	-.02850
1.500	16.960	.83550	.15200	-.10040	.00130	-.00130	.00070	-.23330	-.02550
1.500	19.060	.93560	.15040	-.10890	.00130	-.00120	.00070	-.26840	-.02240
1.496	21.160	1.03500	.15180	-.11410	.00150	-.00140	.00030	-.29640	-.02330
1.499	23.270	1.13000	.15070	-.11390	-.00110	-.00010	.00060	-.31130	-.02900
1.497	25.360	1.22000	.14840	-.10680	.00090	-.00140	.00160	-.32270	-.02720
1.497	27.550	1.31900	.14660	-.10780	-.00020	-.00020	.00120	-.33990	-.04050
GRADIENT		.04660	-.00061	-.00757	-.00025	.00002	.00022	-.01219	-.00041

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(ASTD12) (13 SEP 73)

ANES 66-706 0443 810 C5 D7 M3 F4 M8T10 V3R3

PARAMETRIC DATA

REFERENCE DATA

BRZF = 2000.0000 54. FT. XREF = 1076.4000 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BRZF = 934.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = .000
 AIRLON = .000 SPDRK = 54.900
 BOOFLP = .000 RUDDER = .000
 ELWHL = .000 ELWHL = .000

RUN NO. 0/ 0 RW/L = 2.43 G ADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QAE	QAR
7.003	-1.372	-.03570	.14110	-.00330	.00200	-.00110	-.00010	.01560	-.02290
2.004	.741	.04070	.14060	-.01370	.00210	-.00110	-.00010	-.00820	-.02340
2.000	2.810	.11670	.13940	-.02420	.00230	-.00110	-.00030	-.02650	-.02290
2.000	4.829	.19310	.13540	-.03270	.00140	-.00060	-.00020	-.04710	-.02240
2.000	6.885	.27000	.13490	-.04160	.00230	-.00060	-.00010	-.00950	-.02200
2.000	9.033	.34750	.13420	-.04990	.00160	-.00060	-.00000	-.09310	-.02240
2.000	11.070	.42210	.12920	-.05450	.00170	-.00050	.00020	-.11670	-.02380
2.000	13.130	.50210	.12930	-.06090	.00160	-.00050	.00010	-.13050	-.02240
2.000	15.250	.58090	.12710	-.06650	.00180	-.00030	.00010	-.14140	-.02110
2.000	17.310	.66420	.12400	-.07090	.00260	-.00030	.00010	-.16140	-.02200
2.000	19.360	.75260	.12410	-.07610	.00170	-.00060	-.00010	-.17490	-.02340
2.000	21.470	.83990	.12150	-.08020	.00110	-.00060	-.00030	-.18990	-.02760
1.998	23.550	.92990	.11910	-.08590	.00160	-.00100	-.00030	-.23360	-.02910
2.000	25.650	1.02100	.11490	-.08960	.00220	-.00130	.00000	-.25780	-.03160
2.000	27.730	1.11600	.11140	-.09670	.00170	-.00130	.00060	-.27610	-.03540
		.00668	-.00049	-.00476	-.00036	.00004	-.00002	-.01016	.00004

GRADIENT

(ABT013) (24 AUG 73)

TABULATED SOURCE DATA AVES 66-706 (0443)

AVES 66-706 0443 B10 C5 D7 M3 P4 M07E10 V5R5

DATE 26 SEP 73

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATTUON = .000 SPDRK = 34.900
 BOOPLP = -14.200 RUDDER = -10.000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SREF = 2690.0000 56.17. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRUF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 58/0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.596	-2.081	-1.1360	.09330	.04680	-.01420	.00740	-.00600	.07680	.00000
.599	.001	-.01680	.09370	.04710	-.01440	.00790	-.00670	.07630	.00000
.603	2.134	.07630	.09190	.04970	-.01240	.00700	-.00630	.06020	.00000
.601	4.304	.16180	.08320	.04930	-.01260	.00780	-.00640	.07360	.00000
.600	6.337	.29260	.07620	.04670	-.01190	.00680	-.00590	.06390	.00000
.602	8.363	.39620	.06650	.04400	-.01120	.00660	-.00570	.05000	.00000
.600	10.450	.51260	.05990	.03970	-.01150	.00680	-.00460	.02460	.00000
.600	12.410	.60330	.07420	.03630	-.01100	.00690	-.00430	.00140	.00000
.599	14.570	.70930	.07800	.03210	-.01100	.00700	-.00270	-.02600	.00000
.599	16.640	.82970	.06140	.02070	-.01040	.00690	-.00140	-.06940	.00000
.599	18.680	.94030	.07690	.01460	-.01110	.00690	-.00130	-.04240	.00000
.601	20.800	1.07200	.07330	.01600	-.01050	.00710	-.00140	-.09200	.00000
.604	22.760	1.13270	.07620	.03430	-.01240	.00680	-.00260	-.09130	.00000
.599	24.860	1.14100	.06700	.06230	-.00940	.00680	-.00310	-.07730	.00000
.600	26.830	1.04900	.07640	.13490	-.01060	.00700	-.00310	-.00063	.00000
GRADIENT		.04679	-.00133	.00012	.00029	-.00025	-.00006		

RUN NO. 57/0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.902	-1.612	-.09530	.11630	.04750	-.01600	.00850	-.00370	.06940	.00000
.902	.299	.01610	.11700	.04370	-.01610	.00800	-.00500	.10310	.00000
.901	2.466	.12310	.12070	.04370	-.01760	.00830	-.00220	.14020	.00000
.902	4.545	.22600	.11740	.04450	-.01510	.00770	-.00370	.13070	.00000
.903	6.341	.33590	.11850	.03830	-.01410	.00720	-.00420	.09230	.00000
.903	8.662	.44420	.12090	.02320	-.01180	.00660	-.00340	.03760	.00000
.901	10.740	.54010	.12760	.01650	-.01300	.00640	-.00360	.02230	.00000
.900	12.880	.64830	.12490	.00500	-.01290	.00630	-.00300	-.00020	.00000
.896	15.000	.76630	.12890	-.00030	-.01200	.00650	-.00270	-.10110	.00000
.901	17.110	.86630	.13330	-.00450	-.01450	.00730	-.00110	-.12250	.00000
.899	19.120	.96740	.13740	.00570	-.01210	.00630	-.00100	-.14460	.00000
.901	21.230	1.07500	.14240	.01610	-.01190	.00640	-.00100	-.16080	.00000
.904	23.300	1.10500	.14140	.04910	-.01560	.00640	-.00060	-.15110	.00000
.907	25.260	1.16300	.14920	.07550	-.00390	.00510	-.00370	-.19010	.00000
.901	27.300	1.24200	.14330	.08610	-.00240	.00690	-.00440	-.20180	.00000
GRADIENT		.05042	.00031	-.00042	.00043	-.00010	.00042	.00761	

DATE 28 SEP 75

TABULATED SOURCE DATA AVES 66-T06 (0463)

AVES 66-T06 0463 810 C5 D7 M3 P4 W07E18 V0818

(ABT013) (24 AUG 75)

PARAMETRIC DATA

META = .000 ELEVON = .000
 AIRLON = .000 SPOORR = 84.900
 BOOPLP = -14.200 RUBBER = -10.000
 ELVHL = .000 ELVHL-R = .000

REFERENCE DATA

SREF = 2090.0000 34.171. 30RP = 1076.4000 IN.
 LATP = 474.0000 IN. 7MRP = .0000 IN.
 BRCP = 936.0000 IN. 2MRP = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 56/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.198	-1.742	-0.7500	1.7000	.04980	-.01310	.00580	-.00480	.06250	.00000
1.199	.372	.03060	1.7030	.02620	-.01310	.00570	-.00380	.05960	.00000
1.201	2.359	.17260	1.6970	.00460	-.01280	.00580	-.00310	.05490	.00000
1.202	4.790	.29160	1.6930	-.01180	-.01430	.00600	-.00280	.00940	.00000
1.203	6.830	.40420	1.6870	-.02480	-.01400	.00610	-.00190	-.01960	.00000
1.204	8.772	.50120	1.6770	-.03410	-.01360	.00600	-.00100	-.05310	.00000
1.205	11.000	.62010	1.6630	-.04530	-.01310	.00640	-.00120	-.09740	.00000
1.206	13.020	.73740	1.6470	-.05720	-.01310	.00680	-.00160	-.13490	.00000
1.199	15.230	.87000	1.6280	-.07750	-.01340	.00660	-.00140	-.19020	.00000
1.198	17.370	.94620	1.6050	-.08580	-.01370	.00670	-.00130	-.24170	.00000
1.196	19.360	1.06500	1.5780	-.09320	-.01340	.00670	-.00130	-.27660	.00000
1.198	21.390	1.16200	1.5480	-.08080	-.02370	.01070	-.00030	-.24680	.00000
1.199	23.540	1.19800	1.5310	-.04020	-.01680	.00770	-.00220	-.27490	.00000
1.198	25.510	1.21400	1.4820	.00300	-.00970	.00470	-.00340	-.23680	.00000
1.200	27.600	1.29200	1.4070	.01240	-.01130	.00690	-.00320	-.29120	.00000
GRADIENT		.05654	-.00313	-.00954	-.00015	.00016	.00024	-.00130	.00000

RUN NO. 55/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.497	-1.690	-.06550	1.6660	.02880	-.00920	.00490	-.00370	.05700	.00000
1.500	.169	.03330	1.6720	.01220	-.01000	.00480	-.00340	.03080	.00000
1.501	2.377	.13380	1.6400	-.00280	-.01000	.00480	-.00250	.00480	.00000
1.503	4.488	.23080	1.6160	-.01690	-.00970	.00490	-.00200	-.02210	.00000
1.503	6.587	.32680	1.5880	-.02800	-.00960	.00500	-.00200	-.04920	.00000
1.504	8.638	.42330	1.5700	-.04030	-.01060	.00480	-.00170	-.08420	.00000
1.501	10.800	.53040	1.5640	-.05540	-.01020	.00450	-.00130	-.12860	.00000
1.500	12.820	.62670	1.5790	-.06690	-.00950	.00420	-.00150	-.16570	.00000
1.501	14.920	.72290	1.5580	-.07360	-.00970	.00380	-.00170	-.19680	.00000
1.501	17.120	.82560	1.5250	-.07990	-.00770	.00330	-.00180	-.23480	.00000
1.502	19.080	.91860	.5120	-.08670	-.00640	.00360	-.00210	-.26830	.00000
1.500	21.210	1.01700	1.5110	-.08920	-.00620	.00360	-.00260	-.29600	.00000
1.500	23.340	1.11300	1.4890	-.08920	-.01100	.00430	-.00130	-.31360	.00000
1.499	25.380	1.20000	1.4480	-.08530	-.00980	.00430	-.00130	-.32210	.00000
1.498	27.470	1.29300	1.3990	-.08190	-.01090	.00420	-.00200	-.33780	.00000
GRADIENT		.04635	-.00126	-.00710	-.00007	.00000	.00026	-.00123	.00000

(AST013) (24 AUG 75)

TABULATED SOURCE DATA AMES 66-706 (0443)

AMES 66-706 0443 B10 C5 D7 M5 F4 M87E18 V8M5

DATE 20 SEP 75

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPOONK = 54.900
 BOOFLP = -14.800 RUDDER = -10.000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XREF = 1076.4000 IN.
 LREF = 474.6000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 94/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	COL	OE	OW
1.996	-1.401	-0.03900	.14350	.00480	-.00450	.00310	-.00310	.00030	.00000
2.007	.085	.03570	.14360	-.00440	-.00520	.00310	-.00300	-.00290	.00000
2.001	2.819	.11360	.14140	-.01450	-.00620	.00480	-.00250	-.02430	.00000
2.001	4.993	.19350	.13950	-.02350	-.00350	.00480	-.00270	-.04600	.00000
2.001	6.933	.26370	.13720	-.03120	-.00400	.00430	-.00250	-.06760	.00000
2.001	9.247	.34470	.13460	-.03740	-.00360	.00410	-.00220	-.09330	.00000
2.001	11.120	.41730	.13150	-.04170	-.00260	.00420	-.00200	-.11470	.00000
2.001	13.220	.49550	.12800	-.04780	-.00130	.00410	-.00200	-.13670	.00000
2.003	15.330	.57370	.12550	-.05100	-.00260	.00370	-.00200	-.15840	.00000
2.001	17.430	.65660	.12300	-.05400	-.00370	.00340	-.00190	-.18150	.00000
2.002	19.480	.74240	.12150	-.05760	-.00370	.00310	-.00180	-.20560	.00000
2.006	21.470	.82530	.11740	-.06070	-.00260	.00290	-.00200	-.22950	.00000
2.000	23.550	.91560	.11270	-.06470	-.00280	.00250	-.00210	-.25410	.00000
2.000	25.670	1.01100	.10960	-.06930	-.00310	.00250	-.00180	-.27490	.00000
2.000	27.830	1.10800	.10600	-.07550	-.00210	.00230	-.00110	-.29350	.00000
1.997		.03639	-.00067	-.00443	-.00019	-.00008	.00006	-.01053	.00000

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(ABT014) (24 AUG 73)

ANES 66-706 0443 B10 C5 D7 M3 P4 M87E18 VRR5

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 54.900
 EDOPLP = -14.200 RUDDER = -19.000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SRCT = 2690.0000 56.0 FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRCT = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 63/0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	CHR
.802	-2.047	-1.1820	.09340	.04370	-.03190	.01560	-.01040	.07650	.17680	
.800	-.036	-.02320	.09470	.04710	-.03100	.01530	-.01010	.07720	.17320	
.998	2.127	.07440	.09170	.04830	-.02990	.01500	-.01010	.07630	.16970	
.802	4.112	.16990	.08570	.04830	-.03030	.01470	-.01020	.07330	.16620	
.602	6.157	.27530	.07690	.04540	-.02730	.01360	-.00970	.06270	.16400	
.602	8.249	.36680	.06660	.04420	-.02540	.01360	-.00940	.04860	.15990	
.599	10.420	.50170	.07030	.03770	-.02540	.01360	-.00850	.02290	.15860	
.600	12.390	.59540	.07460	.03340	-.02520	.01300	-.00730	-.00120	.15970	
.598	14.310	.70000	.07770	.02950	-.02520	.01310	-.00600	-.02950	.16230	
.599	16.560	.82430	.08140	.01900	-.02460	.01320	-.00540	-.05740	.16280	
.600	18.630	.94360	.07850	.01210	-.02420	.01340	-.00440	-.08200	.16570	
.600	20.690	1.06000	.07520	.01540	-.02420	.01340	-.00340	-.09590	.16530	
.599	22.780	1.13300	.07230	.03040	-.02620	.01300	-.00320	-.09250	.16310	
.599	24.770	1.13600	.07100	.07810	-.02330	.01300	-.00320	-.07980	.16460	
.599	26.750	1.04400	.07500	.13220	-.02430	.01310	-.00490	-.00140	-.00160	
GRADIENT		.04660	-.00126	.00045	.00029	-.00015	.00003			

RUN NO. 62/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	CHR
.899	-1.763	-1.0010	.11650	.03190	-.04110	.01740	-.01030	.09230	.20230	
.900	.231	.01170	.11600	.04360	-.04120	.01690	-.00920	.10420	.20210	
.901	2.341	.10140	.11760	.04890	-.04060	.01640	-.00640	.14030	.19830	
.900	4.480	.21640	.11710	.04600	-.03700	.01560	-.00740	.12960	.19460	
.902	6.545	.32070	.11730	.04000	-.03520	.01480	-.00810	.09480	.18970	
.901	8.644	.41680	.11760	.03300	-.03390	.01400	-.00860	.06380	.18270	
.899	10.730	.52500	.11900	.02470	-.03370	.01350	-.00780	.02480	.18030	
.905	12.780	.65480	.12610	.00170	-.03390	.01280	-.00620	-.03160	.17930	
.903	14.860	.75260	.13000	.00040	-.03430	.01280	-.00630	-.08900	.17970	
.899	16.970	.86360	.13200	.00030	-.03460	.01300	-.00450	-.11860	.18230	
.900	19.050	.1770	.13380	.00810	-.03410	.01200	-.00510	-.13900	.18230	
.901	21.160	1.04300	.13650	.02070	-.03330	.01170	-.00440	-.15530	.18340	
.902	23.210	1.06400	.13870	.03180	-.03220	.01220	-.00560	-.15660	.18560	
.899	25.220	1.14000	.14500	.09170	-.02100	.01070	-.00830	-.16620	.17920	
.900	27.340	1.19500	.14260	.09710	-.01470	.01140	-.00920	-.18670	.17730	
GRADIENT		.04991	.00003	-.00059	.00032	-.00026	.00055	.00008		

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0A43)

PAGE 107

(ABTD14) (24 AUG 73)

ANES 66-706 0A43 BID C5 D7 M3 P4 W07E16 V013

REFERENCE DATA

SREF = 2690.0000 54. FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6000 IN. ZMRP = 400.0000 IN.
SCALE = .0190 SCALE

BETA = .000 ELEVON = .000
AIRLON = .000 SPODRK = 54.900
BODFLP = -14.200 RUDDER = -15.000
ELVN-L = .000 ELVN-R = .000

PARAMETRIC DATA

RUN NO. 61/ 0 RV/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CME	CR
1.202	-1.712	-.07560	.17000	.09010	-.02760	.01230	-.00760	.06190	.23960
1.201	.347	.04570	.17100	.02680	-.02910	.01220	-.00730	.03910	.24200
1.206	2.424	.16290	.17030	.00440	-.02860	.01220	-.00660	.03710	.24190
1.201	4.277	.26070	.16920	-.01130	-.02850	.01240	-.00610	.00870	.24340
1.199	6.667	.39060	.16860	-.02300	-.02820	.01250	-.00500	-.01310	.24020
1.199	8.775	.49650	.16810	-.03220	-.02740	.01270	-.00660	-.05430	.24010
1.200	10.960	.61140	.16840	-.04400	-.02740	.01250	-.00590	-.09310	.23660
1.202	12.960	.72610	.16930	-.05330	-.02760	.01250	-.00590	-.13520	.23490
1.203	15.060	.85740	.16950	-.07270	-.02770	.01260	-.00470	-.18630	.23460
1.200	17.260	.97190	.17020	-.08210	-.02700	.01220	-.00600	-.23640	.23620
1.201	19.260	1.06800	.16910	-.08590	-.02640	.01240	-.00500	-.25650	.24070
1.200	21.400	1.15300	.16230	-.07560	-.03330	.01530	-.00540	-.28430	.24570
1.203	23.460	1.20100	.15460	-.04660	-.03240	.01420	-.00630	-.25730	.23630
1.200	25.530	1.20500	.14810	.00420	-.02300	.00980	-.00830	-.28990	.23790
1.201	27.560	1.27900	.14190	.01490	-.02630	.01260	-.00930	-.28990	.00051
GRADIENT		.05676	-.00015	-.00988	-.00008	.00001	.00027	-.01156	

RUN NO. 60/ 0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CME	CR
1.500	-1.910	-.07340	.17030	.03000	-.02420	.01050	-.00690	.05740	.24460
1.501	.225	.02680	.16940	.01290	-.02520	.01050	-.00660	.02960	.24270
1.503	2.275	.12230	.16620	-.00070	-.02530	.01010	-.00560	.00500	.23970
1.503	4.401	.22070	.16430	-.01510	-.02530	.01010	-.00490	-.02170	.23410
1.501	6.477	.31430	.16010	-.02630	-.02580	.01000	-.00480	-.04600	.22780
1.501	8.659	.41920	.15970	-.04030	-.02620	.01000	-.00430	-.08400	.22150
1.501	10.660	.51730	.15860	-.05330	-.02460	.00970	-.00390	-.12660	.21590
1.501	12.740	.61790	.15680	-.06490	-.02360	.00920	-.00390	-.16550	.21070
1.501	14.640	.71280	.15620	-.07180	-.02270	.00850	-.00390	-.19590	.20730
1.501	16.960	.81200	.15270	-.07920	-.02280	.00810	-.00440	-.23240	.20820
1.500	19.060	.90900	.15100	-.08470	-.02330	.00810	-.00440	-.26790	.21600
1.499	21.210	1.00900	.15040	-.08760	-.02220	.00820	-.00390	-.29660	.22130
1.499	23.260	1.10000	.14850	-.08610	-.02420	.00920	-.00480	-.31240	.22520
1.500	25.360	1.19000	.14670	-.08230	-.02630	.00960	-.00350	-.32180	.23270
1.500	27.470	1.26300	.13950	-.07890	-.02630	.00900	-.00430	-.33710	.24010
GRADIENT		.04651	-.00101	-.00710	-.00016	-.00008	.00033	-.01235	-.00167

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TABULATED SOURCE DATA ARES 66-706 (0A43)

AME'S 50-706 0A43 B10 C5 D7 M3 P4 M87E18 VSR5

(ABT014) (24 AUG 73)

REFERENCE DATA

SREF = 2690.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 54.900
 BODYLP = -14.200 RUDDER = -15.000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 19/ 0 RVL = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CBL	O/E	OWR
2.003	-1.519	-.04770	.14810	.00390	-.02290	.00080	-.00370	.01970	.24710
2.003	.647	.02610	.14440	-.00330	-.02240	.00900	-.00340	-.01430	.23780
2.003	2.734	.10470	.14250	-.01390	-.02220	.00860	-.00850	-.02490	.22690
2.003	4.866	.18220	.14120	-.02290	-.02220	.00870	-.00710	-.04700	.21610
2.003	6.911	.25970	.13850	-.03070	-.01990	.00810	-.00470	-.07040	.20820
2.003	8.956	.33190	.13500	-.03670	-.01050	.00800	-.00420	-.09370	.19720
2.003	11.070	.40090	.13370	-.04290	-.02010	.00760	-.00390	-.11670	.18690
2.003	13.120	.46560	.13330	-.04720	-.01940	.00740	-.00380	-.13770	.17930
2.003	15.230	.52600	.12800	-.05110	-.01920	.00740	-.00360	-.15900	.16730
2.003	17.350	.58300	.12570	-.05320	-.02010	.00730	-.00360	-.18350	.16240
2.003	19.350	.62990	.12420	-.05720	-.02320	.00730	-.00400	-.20780	.16330
2.003	21.450	.67700	.12160	-.05990	-.01810	.00680	-.00410	-.23200	.16380
2.000	23.530	.90610	.11820	-.06290	-.01690	.00630	-.00410	-.25590	.16030
2.000	25.790	1.00100	.11330	-.06580	-.01700	.00580	-.00410	-.27900	.17030
2.003	27.740	1.09100	.11010	-.07150	-.01860	.00550	-.00330	-.29330	.14980
GRADIENT		.03607	-.00107	-.00457	.00011	-.00009	.00009	-.01039	-.00466

(ASTD15) (24 AUG 75)

TABULATED SOURCE DATA AMES 66-756 (0443)

AMES 66-756 0443 BID C5 D7 M3 F4 W07E10 V085

DATE 28 SEP 75

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPORAR = 24.900
 BOOFLP = -14.200 RUDDER = -10.000
 ELVNL = .000 ELVNL-R = .000

REFERENCE DATA

SREF = 2690.00) 50.77. YMRP = 1076.4000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 403.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 66/0 RV/L = 2.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CH	CA	CLM	CY	CYV	CBL	CNE	CNR
.596	-2.115	.09990	.06900	.02180	-.02850	.01310	-.00950	.07590	.07680
.600	-.003	-.00400	.07110	.02430	-.02740	.01440	-.00940	.07690	.07810
.601	2.222	.09560	.06760	.02690	-.02670	.01250	-.00970	.07820	.07350
.600	4.258	.19210	.06300	.02420	-.01900	.01840	-.00920	.07220	.07210
.600	6.185	.29440	.05460	.02350	-.02750	.01200	-.00910	.06210	.07140
.601	8.352	.40940	.04900	.02150	-.02350	.01120	-.00830	.04720	.06910
.599	10.440	.51820	.04960	.01560	-.02520	.01060	-.00830	.02180	.06840
.600	12.590	.62360	.05510	.01330	-.02400	.01110	-.00720	.00250	.06900
.601	14.570	.71540	.05950	.00970	-.02400	.01120	-.00750	-.00250	.06980
.600	16.720	.84420	.06260	-.00350	-.02750	.01200	-.0052	-.00980	.07030
.601	18.680	.96340	.06730	-.00760	-.02710	.01220	-.00430	-.07110	.07090
.602	20.760	1.07300	.07300	-.00350	-.02650	.01220	-.00420	-.07240	.07390
.598	22.770	1.14370	.07530	.01220	-.02850	.01310	-.00350	-.06660	.08150
.598	24.900	1.12500	.05900	.07030	-.02950	.01340	-.00350	-.07070	.08510
.599	26.640	1.04810	.06270	.11350	-.03120	.01340	-.00345	-.07870	.08510
GRADIENT	.04802	-.00101	.00049	.00016	-.00016	-.00010	-.00015	-.00045	-.00066

RUN NO. 67/0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CH	CA	CLM	CY	CYV	CBL	CNE	CNR
.916	-1.780	-.07220	.06650	.01780	-.03190	.01480	-.00980	.07630	.12980
.914	.227	-.03310	.09620	.01290	-.03340	.01450	-.00870	.09350	.11780
.899	2.422	.12560	.09220	.02300	-.03370	.01420	-.00620	.13570	.11580
.913	4.592	.25790	.09650	.00990	-.03370	.01310	-.00620	.11950	.11210
.902	6.705	.34970	.09510	.01350	-.02790	.01240	-.00760	.04630	.10400
.902	8.733	.44970	.08790	.00470	-.02670	.01170	-.00860	.05590	.10230
.903	10.900	.57290	.10340	-.00400	-.02840	.01130	-.00750	.01340	.09770
.901	12.720	.64010	.10370	-.01120	-.02820	.01140	-.00670	-.04190	.09580
.900	14.990	.76410	.10890	-.01920	-.02750	.01100	-.00650	-.09290	.09980
.899	17.050	.88000	.11440	-.02110	-.03030	.01170	-.00510	-.11590	.10900
.903	19.680	.97860	.11990	-.01890	-.03030	.01170	-.00510	-.14790	.11560
.902	21.150	1.05400	.12220	-.00150	-.03340	.01220	-.00460	-.14590	.12590
.898	23.320	1.08270	.12220	.03860	-.02510	.01070	-.00950	-.14590	.13110
.902	25.220	1.13700	.13030	.06590	-.02640	.01340	-.00860	-.16610	.15260
.899	27.370	1.19300	.17500	.08050	-.02260	.01500	-.00940	-.18470	.15240
GRADIENT	.05076	-.00012	.00016	-.00016	.00026	-.00023	.00034	.00803	-.00016

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TABULATED SOURCE DATA AMES 66-703 (0443)

AMES 66-703 0443 010 C5 07 MD F4 W87E16 V3R8

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(AST015) (24 AUG 75

REFERENCE DATA

2:17 = 2890.0000 50. FT. XMRP = 1076.4600 IN.
 1:17 = 474.6000 IN. YMRP = .0000 IN.
 0:07 = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPDRK = 14.900
 BOOFLP = -14.200 RUDDER = -10.000
 ELWHL = .000 ELWHLR = .000

RUN NO. 66/ 0 RNU/L = - 54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	OE
1.199	-1.754	-0.5910	.14690	.02030	-.02150	.01060	-.00690	.09070	.09070	.14610
1.201	.332	.05560	.14640	.00160	-.02400	.01010	-.00600	.08190	.08190	.14100
1.203	2.561	.18260	.14650	-.02190	-.02430	.01010	-.00580	.03640	.03640	.13650
1.205	4.707	.30220	.14610	-.07960	-.02440	.01000	-.00490	.01010	.01010	.13190
1.207	6.767	.40930	.14670	-.14990	-.02400	.01010	-.00350	-.01920	-.01920	.12820
1.209	8.846	.51110	.14650	-.05720	-.02170	.01030	-.00470	-.05350	-.05350	.12450
1.211	10.980	.62430	.14620	-.06580	-.02400	.00970	-.00430	-.07400	-.07400	.12110
1.213	12.970	.73460	.15160	-.07540	-.02370	.00970	-.00430	-.13920	-.13920	.11940
1.215	15.170	.87060	.15430	-.09260	-.02460	.00960	-.00390	-.16560	-.16560	.11660
1.217	17.370	.96630	.15660	-.10500	-.02200	.00860	-.00350	-.24050	-.24050	.11360
1.219	19.330	1.06400	.15660	-.10500	-.02130	.00860	-.00350	-.27930	-.27930	.11250
1.221	21.380	1.16100	.14670	-.09510	-.02100	.01160	-.00320	-.25240	-.25240	.11290
1.223	23.540	1.20700	.13740	-.06210	-.02460	.01040	-.00380	-.27330	-.27330	.12180
1.196	25.540	1.22400	.13410	-.02340	-.02310	.00920	-.00500	-.25650	-.25650	.13650
1.200	27.620	1.29300	.12540	-.00730	-.02260	.00960	-.00670	-.26670	-.26670	.13960
GRADIENT		.05620	.00017	-.00943	.00014	-.00018	.00032	-.01102	-.01102	-.00225

RUN NO. 65/ 0 RNU/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	OE	OE
1.499	-1.920	-.05810	.14930	.00160	-.02310	.00810	-.00340	.05730	.05730	.11130
1.501	.153	.03640	.14870	-.01330	-.02310	.00790	-.00320	.03040	.03040	.10630
1.503	2.349	.13670	.14690	-.02750	-.02170	.00750	-.00410	.00460	.00460	.10390
1.501	4.445	.23540	.14440	-.04060	-.02130	.00750	-.00360	-.02160	-.02160	.09950
1.501	6.576	.33260	.14140	-.05210	-.02120	.00760	-.00360	-.05040	-.05040	.09640
1.503	8.549	.42490	.14060	-.06260	-.02150	.00760	-.00320	-.06280	-.06280	.09360
1.503	10.760	.53470	.14150	-.07710	-.02090	.00720	-.00270	-.12630	-.12630	.09070
1.503	12.800	.63220	.14230	-.08750	-.02130	.00690	-.00260	-.16640	-.16640	.08730
1.503	14.820	.72160	.14020	-.09300	-.02090	.00690	-.00260	-.19510	-.19510	.08460
1.503	17.110	.82690	.13740	-.09990	-.01890	.00570	-.00300	-.23310	-.23310	.08240
1.501	19.130	.92480	.13590	-.10630	-.01620	.00560	-.00320	-.26970	-.26970	.08370
1.501	21.130	1.01600	.13370	-.10990	-.01620	.00570	-.00330	-.29520	-.29520	.08330
1.500	23.350	1.11700	.13350	-.10870	-.01940	.00520	-.00320	-.31440	-.31440	.08240
1.500	25.350	1.20300	.13160	-.10620	-.02020	.00630	-.00200	-.32340	-.32340	.08060
1.500	27.490	1.29600	.12710	-.10010	-.01690	.00440	-.00210	-.33640	-.33640	.06630
GRADIENT		.04607	-.00078	-.00663	.00032	-.00010	.00031	-.01236	-.01236	-.00187

(AST015) (24 AUG 73)

TABULATED SOURCE DATA AMES 66-756 (0A43)

AMES 66-756 0A43 810 C5 D7 M3 P4 W87E18 V8R15

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 24.900
 BOOPLP = -14.200 RUDDER = -10.000
 ELVH-L = .000 ELVH-R = .000

REFERENCE DATA

SACF = 2990.0000 84.17. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 938.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 64/ 0 RN/L = 2.44 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	CN	CA	CLM	CY	CYN	CR	OR	OR
1.996	-1.321	-0.03770	.13050	-.01580	-.01780	.00390	-.00400	.02040	.09480
2.006	.709	.04130	.12790	-.02310	-.01910	.00360	-.00380	-.00340	.09010
2.000	2.787	.11290	.12690	-.03590	-.01800	.00340	-.00370	-.02360	.08710
1.996	4.781	.18780	.12780	-.04230	-.01740	.00350	-.00360	-.04450	.08290
1.998	6.979	.26960	.12420	-.05000	-.01780	.00350	-.00350	-.06910	.07970
1.996	9.035	.34130	.12150	-.05490	-.01640	.00350	-.00290	-.09290	.07470
1.996	11.050	.41260	.12060	-.05990	-.01920	.00350	-.00260	-.11540	.07110
1.996	13.140	.49330	.11840	-.06400	-.01600	.00350	-.00290	-.13610	.06790
2.002	15.370	.57660	.11740	-.06690	-.01770	.00310	-.00280	-.16000	.06500
1.999	17.250	.65320	.11400	-.07340	-.01560	.00460	-.00270	-.18090	.06310
2.000	19.430	.74290	.11190	-.07340	-.01470	.00420	-.00280	-.20630	.05990
1.999	21.530	.82830	.11090	-.07520	-.01560	.00420	-.00280	-.23110	.05260
1.996	23.570	.91630	.10760	-.07800	-.01420	.00390	-.00270	-.25320	.04670
1.996	25.630	1.00400	.10410	-.08040	-.01280	.00290	-.00270	-.27390	.03920
1.996	27.780	1.10200	.10290	-.08500	-.01310	.00260	-.00210	-.29350	.03360
GRADIENT		.03590	-.00745	-.00426	.00007	-.00006	.00000	-.01028	-.00187

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TABUL ED SOURCE DATA ANES 66-706 (0443)

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ANES 66-706 0443 B10 C5 D7 M3 F4 M87E18 V843

(AST018) (24 AUG 73)

REFERENCE DATA

SRF = 2000.0000 SQ.FT. XRRP = 1076.4000 IN.
 LRRP = 474.8000 IN. YRRP = .0000 IN.
 BRRP = 936.8000 IN. ZRRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATLORN = .000 SPOBRK = .000
 BOOFLP = -14.800 RUCCER = -10.000
 ELWHL = .000 ELVHR = .000

RUN NO. 72/0 RN/L = 2.49 GRADIENT INTERVAL = -5.70/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CYL	OE	OR
.599	-2.072	-.09390	.06170	.01840	-.02530	.00350	-.00600	.07740	.05710
.600	-.074	-.00600	.06300	.02300	-.02650	.00800	-.00610	.07750	.05500
.599	2.164	.09110	.05960	.02210	-.02660	.00810	-.00650	.07690	.05360
.599	4.196	.19360	.05390	.02230	-.02610	.00620	-.00640	.07320	.05260
.602	6.317	.30280	.04350	.01930	-.02720	.00600	-.00630	.06160	.05150
.601	8.403	.41230	.03650	.01630	-.02530	.00570	-.00620	.04810	.05090
.600	10.440	.51920	.04190	.01160	-.02510	.00550	-.00520	.02160	.05100
.600	12.460	.61370	.04650	.01020	-.02320	.00530	-.00420	-.00220	.05100
.599	14.620	.72130	.05180	.00490	-.02280	.00540	-.00230	-.05790	.05270
.599	16.550	.83640	.05360	-.00600	-.02460	.00600	-.00160	-.05330	.05510
.599	18.630	.96680	.05230	-.01130	-.02690	.00630	-.00130	-.06390	.05950
.598	20.770	1.07230	.04930	-.00720	-.02590	.00640	-.00070	-.06340	.06300
.599	22.820	1.14200	.04850	.01020	-.02700	.00630	-.00130	-.06810	.07150
.602	24.780	1.11500	.04760	.06170	-.02450	.00700	-.00130	-.07660	-.000174
.599	26.930	1.04500	.05600	.10860	-.03380	.00910	-.00330	-.00015	
GRADIENT		.04591	-.00128	.00066	-.00012	.00010	-.00008		

RUN NO. 72/0 RN/L = 2.49 GRADIENT INTERVAL = -5.70/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CYL	OE	OR
.901	-1.027	-.07720	.08430	.01340	-.01470	.00120	-.00320	.07670	.03790
.899	.247	.03160	.08270	.01110	-.01540	.00140	-.00250	.09310	.03660
.900	2.363	.13180	.08760	.01250	-.01680	.00240	.00040	.13560	.03740
.902	4.547	.24280	.08570	.01080	-.01710	.00220	-.00140	.12360	.03760
.901	6.536	.33710	.08750	.01070	-.01590	.00160	-.00210	.09000	.03840
.904	8.646	.43140	.08970	-.00270	-.01430	.00160	-.00350	.06140	.03680
.903	10.930	.55600	.09200	-.00990	-.01480	.00150	-.00260	.01390	.03690
.902	12.690	.66130	.09850	-.02290	-.01620	.00180	-.00190	-.04450	.03640
.902	15.000	.77060	.10230	-.02630	-.01630	.00160	-.00020	-.09930	.04330
.902	17.130	.86710	.10700	-.02750	-.01960	.00240	-.00020	-.11460	.04670
.901	19.120	.97780	.11130	-.02290	-.02030	.00200	-.00010	-.14650	.05400
.904	21.190	1.05500	.11290	-.00640	-.02030	.00200	-.00010	-.14920	.05380
.899	23.210	1.07000	.11520	.03590	-.00670	.00200	-.00010	-.14340	.06690
.901	25.400	1.12300	.12020	.06460	-.01080	.00170	-.00320	-.16330	.06490
.903	27.370	1.24000	.12440	.03750	-.00970	.00190	-.00130	-.20170	.06480
GRADIENT		.04867	.00043	-.00030	-.00050	.00019	.00039	.00062	-.000017

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TABULATED SOURCE DATA ANES 66-706 (0.43)

(ABT010) (24 AUG 73)

ANES 66-706 0443 B10 C5 D7 H3 F4 W07E10 VSR5

PARAMETRIC DATA

BETA = .000
 ATURCA = .000
 BOOFLP = -14.200
 ELVN-L = .000
 ELVN-R = .000
 SPOBKR = .000
 RUDDER = -10.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

RUN NO. 71/0 RV/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OME	OMR
1.200	-1.710	-.05790	.13990	.01420	-.02390	.00550	-.00450	.06150	.09770
1.203	.348	.05670	.14170	-.00470	-.02300	.00530	-.00370	.06130	.09300
1.200	2.563	.16470	.14210	-.02760	-.02330	.00530	-.00320	.03530	.08790
1.201	4.610	.29750	.14140	-.04290	-.02430	.00550	-.00270	.01090	.08420
1.200	6.656	.40420	.14200	-.05440	-.02410	.00560	-.00140	-.01690	.08090
1.201	8.671	.51180	.14260	-.06140	-.02270	.00600	-.00340	-.03360	.07610
1.203	11.000	.62480	.14390	-.07080	-.02160	.00670	-.00250	-.09470	.07850
1.203	13.010	.73690	.14810	-.08000	-.02350	.00680	-.00280	-.13550	.07850
1.200	15.100	.86490	.14860	-.09610	-.02510	.00600	-.00170	-.16250	.07850
1.200	17.230	.96740	.15130	-.10460	-.02420	.00520	-.00340	-.23720	.07990
1.200	19.330	1.06400	.15210	-.10820	-.02260	.00510	-.00330	-.27880	.08050
1.199	21.470	1.16500	.14400	-.09660	-.02280	.00610	-.00330	-.25810	.07720
1.196	23.480	1.19300	.13230	-.06080	-.02420	.00570	-.00360	-.27400	.08590
1.196	25.630	1.22400	.12700	-.02550	-.02140	.00480	-.00360	-.23610	.10940
1.199	27.690	1.29700	.12000	-.01140	-.02330	.00360	-.00400	-.26910	.10110
GRADIENT		.05631	.00023	-.00916	-.00010	-.00000	.00126	-.01123	-.00215

RUN NO. 70/0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OME	OMR
1.499	-2.013	-.01920	.14420	-.00170	-.01990	.00480	-.00370	.05660	.08250
1.499	.032	.03590	.14350	-.01620	-.02000	.00420	-.00380	.03260	.08190
1.503	2.392	.14330	.14160	-.03300	-.02220	.00380	-.00260	.00470	.07770
1.503	4.491	.23960	.13990	-.04570	-.02210	.00390	-.00210	-.02210	.07460
1.503	6.606	.33310	.13700	-.05690	-.02200	.00390	-.00210	-.05010	.07200
1.503	8.673	.43410	.13570	-.06850	-.02170	.00400	-.00170	-.04530	.07110
1.500	10.760	.53760	.13670	-.08160	-.02140	.00400	-.00140	-.12940	.06850
1.500	12.620	.63340	.13760	-.09190	-.02130	.00380	-.00150	-.16640	.06860
1.500	14.660	.72350	.13620	-.09760	-.02050	.00290	-.00180	-.19540	.06460
1.500	17.060	.82810	.13340	-.10460	-.01860	.00280	-.00240	-.23370	.06260
1.500	19.110	.92330	.13230	-.10980	-.01900	.00290	-.00240	-.26600	.06190
1.502	21.210	1.02200	.13200	-.11430	-.01910	.00290	-.00210	-.29670	.06160
1.500	23.300	1.11400	.13000	-.11490	-.01960	.00320	-.00210	-.31350	.05970
1.502	25.400	1.20700	.12860	-.10950	-.02120	.00340	-.00360	-.32360	.05710
1.500	27.480	1.29700	.12370	-.10370	-.02130	.00270	-.00110	-.33610	.04320
GRADIENT		.04594	-.00067	-.00671	-.00041	-.00006	.00027	-.01236	-.00120

DATE 28 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

(AB1018) (24 AUG 73)

AMES 66-706 0443 B10 C5 D7 NO P4 M87E18 V543

REFERENCE DATA

SREF = 2880.0000 80. FT. YMRP = 1076.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 SREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALURON = .000 SPORR = .000
 BOOPLP = -14.200 RUDDEN = -10.000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 00/ 0 RNL = 2.45 GRADIENT INTERVAL = -8.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CNL	CNE	CNR
1.996	-1.991	-.03670	.12630	-.08010	-.01290	.00310	-.00240	.00200	.04690
2.001	.000	.04410	.12450	-.02690	-.01190	.00290	-.00290	-.00280	.06390
2.002	2.835	.12070	.12260	-.03690	-.01290	.00260	-.00220	-.02410	.08030
2.004	4.936	.19750	.12120	-.04720	-.01290	.00280	-.00220	-.04670	.05720
2.004	6.940	.26750	.12020	-.03310	-.01140	.00270	-.00120	-.05.10	.09400
1.998	9.046	.34460	.11890	-.03620	-.01190	.00280	-.00160	-.09290	.09210
1.997	11.180	.42410	.11630	-.06400	-.01190	.00270	-.00190	-.11630	.04990
2.000	13.310	.49340	.11760	-.06710	-.01190	.00290	-.00190	-.13630	.04640
2.005	15.310	.57350	.11500	-.06950	-.01260	.00230	-.00150	-.15600	.04430
2.005	17.410	.65950	.11090	-.07270	-.01340	.00230	-.00150	-.16200	.04190
2.005	19.420	.74120	.10960	-.07510	-.01340	.00230	-.00170	-.20520	.03670
2.006	21.530	.82660	.10660	-.07720	-.01260	.00230	-.00170	-.23010	.03470
2.003	23.630	.91710	.10600	-.07960	-.01140	.00140	-.00170	-.23470	.03010
2.003	25.660	1.00500	.10290	-.08180	-.01060	.00060	-.00140	-.27430	.02680
2.003	27.810	1.10100	.10120	-.08450	-.01110	.00060	-.00130	-.29370	.02210
2.003		.03596	-.00076	-.08416	-.00200	-.00004	-.00004	-.01042	-.00146

GRADIENT

REFERENCE DATA

SREF = 2000.0000 56.17. YMRP = 1076.4000 IN.
LREF = 474.8700 IN. YMRP = .0000 IN.
BREF = 936.6700 IN. YMRP = 400.0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ATTORN = .000 SPORRR = 94.900
BOOFUP = -14.800 RUOOCN = -80.000
ELVN-L = .000 ELVN-R = .000

RUN NO. 77/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CME	CMA
.900	-2.110	-1.1270	.09450	.04640	-.05070	.01970	-.01880	.07780	.25480
.901	-.007	-.02370	.09510	.04780	-.05030	.01940	-.0122	.07780	.25280
.901	2.034	.07100	.09230	.05090	-.04810	.01890	-.01230	.07960	.24800
.902	4.102	.16890	.08250	.04830	-.04830	.01800	-.01210	.07410	.24380
.901	6.156	.27800	.07730	.04890	-.04890	.01800	-.01170	.06390	.24110
.901	8.225	.39370	.06720	.04800	-.04500	.01750	-.01130	.04940	.23780
.901	10.290	.49330	.06250	.03920	-.04560	.01720	-.00990	.02380	.23590
.901	12.310	.56980	.07380	.03540	-.04450	.01690	-.00890	.00080	.23440
.901	14.410	.69310	.07770	.03110	-.04400	.01700	-.00760	-.02690	.23410
.901	16.460	.81420	.06170	.02100	-.04370	.01720	-.00650	-.05330	.23480
.901	18.590	.94620	.06700	.01380	-.04450	.01690	-.00610	-.06980	.23540
.901	20.650	1.05570	.07480	.01680	-.04410	.01720	-.00580	-.04120	.23710
.901	22.700	1.12900	.07180	.03290	-.04460	.01700	-.00530	-.09360	.23590
.901	24.690	1.12700	.06880	.07590	-.04500	.01720	-.00570	-.09280	.23160
.901	26.720	1.03800	.07570	.13320	-.04310	.01690	-.00640	-.07930	.23320
GRADIENT		.04674	-.00137	.00048	.00045	-.00014	.00010	-.00035	-.00171

RUN NO. 76/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CME	CMA
.900	-1.626	-1.10240	.11750	.05410	-.05480	.02290	-.01370	.09620	.29600
.901	.205	.00730	.11890	.04870	-.05370	.02190	-.01190	.10230	.29230
.901	2.300	.09840	.11580	.05170	-.05270	.02150	-.00890	.13940	.28440
.902	4.441	.21850	.11910	.04560	-.05080	.02060	-.00960	.13100	.27780
.901	6.464	.31470	.11940	.04370	-.04880	.01970	-.01020	.09670	.26640
.901	8.566	.41160	.11750	.03770	-.04750	.01870	-.01090	.06540	.25900
.901	10.670	.52160	.12110	.02310	-.04560	.01800	-.00990	.02730	.25110
.901	12.770	.63760	.12550	.00840	-.04700	.01780	-.00920	-.04250	.24750
.901	14.850	.73980	.12740	.00770	-.04670	.01750	-.00800	-.08670	.24730
.901	16.960	.86890	.13380	.00000	-.04750	.01730	-.00680	-.12050	.24850
.902	19.090	.94760	.13760	.00950	-.04630	.01630	-.00660	-.13650	.25050
.901	21.090	1.03100	.13710	.02610	-.04700	.01630	-.00650	-.14860	.25050
.903	23.140	1.10900	.14220	.04420	-.04350	.01690	-.00730	-.16340	.25050
.901	25.190	1.11100	.14650	.09450	-.03300	.01490	-.00980	-.16200	.23820
.901	27.270	1.19000	.14210	.09890	-.02620	.01460	-.01130	-.18670	.23720
GRADIENT		.05043	.00008	-.00094	.00056	-.00035	.00063	.00675	-.00299

DATE 28 SEP 73

TABULATED SOURCE DATA AXES 66-706 (04F3)

(ASTD17) (24 AUG 73)

AXES 66-706 0443 810 C5 D7 M5 P4 M87E18 V8R5

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 1076.4800 IN.
 YREF = 474.8000 IN. YREF = .0000 IN.
 ZREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELN ON = .000
 AIRLON = .000 SPOBRK = 54.000
 BOORLP = -14.200 RUDDER = -20.000
 ELVHL = .000 ELVHL-R = .000

RUN NO. 73/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OAE	CHR
1.199	-1.782	-0.0770	.17160	.05130	-.03660	.01810	-.00970	.08050	.31710
1.206	.304	.04320	.17200	.02950	-.03810	.01990	-.00900	.06370	.31760
1.202	2.412	.18020	.17130	.00780	-.03930	.01580	-.00430	.03690	.31560
1.204	4.517	.27600	.17010	-.01010	-.03790	.01570	-.00810	.01150	.31520
1.199	6.559	.36920	.16970	-.02190	-.03650	.01800	-.00650	-.01770	.31250
1.199	6.781	.49590	.16870	-.03020	-.03750	.01570	-.00850	-.05480	.31140
1.200	10.860	.60440	.16990	-.04050	-.03910	.01630	-.00740	-.09690	.30940
1.202	12.950	.72580	.16980	-.05200	-.03710	.01590	-.00770	-.13540	.30670
1.200	15.040	.85470	.17120	-.07070	-.03820	.01610	-.00610	-.18310	.30500
1.199	17.140	.98510	.17130	-.07970	-.03700	.01580	-.00770	-.23730	.30320
1.201	19.240	1.06900	.17020	-.08450	-.03530	.01570	-.00850	-.27710	.30190
1.200	21.310	1.14500	.16290	-.07220	-.04390	.01870	-.00600	-.25270	.29960
1.200	23.380	1.18900	.15410	-.03690	-.04200	.01730	-.00660	-.27450	.30320
1.200	25.430	1.20100	.15100	.00630	-.03420	.01370	-.00700	-.25420	.28790
1.199	27.520	1.27600	.14270	.01820	-.03530	.01610	-.00970	-.28830	.31650
1.200	GRADIENT	.05608	-.00028	-.00981	.00004	-.00006	.00026	-.01113	-.00038

RUN NO. 74/ 0 RN/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OAE	CHR
1.500	-1.939	-.06940	.17180	.03230	-.03140	.01290	-.00840	.05740	.32590
1.501	.129	.02780	.17170	.01450	-.03140	.01300	-.00810	.03090	.32210
1.501	2.224	.12210	.16970	-.00040	-.03250	.01290	-.00890	.00620	.31920
1.503	4.357	.22010	.16480	-.01480	-.03290	.01290	-.00830	-.02200	.31300
1.500	6.351	.31320	.16260	-.02580	-.03300	.01290	-.00800	-.04790	.30470
1.500	8.920	.41570	.16020	-.03860	-.03180	.01260	-.00560	-.06530	.29550
1.499	10.810	.51710	.16120	-.05260	-.03040	.01180	-.00520	-.12790	.28980
1.500	12.700	.61570	.16080	-.06410	-.03100	.01170	-.00520	-.16580	.28270
1.500	14.840	.71230	.15810	-.07040	-.02970	.01120	-.00520	-.19750	.27920
1.500	16.900	.80940	.15490	-.07750	-.02800	.01050	-.00550	-.23340	.27620
1.499	18.990	.90660	.15310	-.08340	-.02740	.01040	-.00560	-.26780	.28180
1.499	21.100	1.00200	.15300	-.08600	-.02680	.01070	-.00620	-.29620	.28360
1.499	23.230	1.10000	.15040	-.08540	-.03220	.01190	-.00590	-.31270	.28650
1.499	25.270	1.18400	.14820	-.08100	-.03300	.01230	-.00460	-.32010	.29650
1.499	27.360	1.27900	.14180	-.07790	-.03350	.01130	-.00540	-.33560	.30290
1.498	GRADIENT	.04588	-.00113	-.00741	-.00027	-.00000	.00036	-.01253	-.00198

DATE 28 SEP 73

TABULATED SOURCE DATA AWES 66-706 (0443)

PAGE 117

AWES 66-706 0443 810 C5 D7 H3 F4 W07E10 VSR5

(ABT017) (24 AUG 73)

REFERENCE DATA

SREF = 2000.0000 50.00 FT. XMRP = 1076.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALURON = .000 SPOORR = 54.900
 BOOPLP = -14.200 RUDDER = -20.000
 ELVH-L = .000 ELVH-R = .000

RUN NO. 78/ 0 RV/L = 2.4P GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	CHE	CVR
1.997	-1.526	-0.04940	.14770	.00930	-.03040	.01180	-.00680	.01960	.31580
2.002	.990	.02930	.14510	.00000	-.02970	.01130	-.00450	-.00430	.30670
2.005	2.791	.10510	.14340	-.01190	-.03050	.01120	-.00620	-.02330	.30070
2.002	4.787	.17890	.14400	-.01970	-.02840	.01070	-.00610	-.04570	.29060
1.995	6.820	.25310	.13900	-.02720	-.02600	.01020	-.00540	-.06620	.27600
1.999	8.934	.32960	.13330	-.03350	-.02660	.00990	-.00510	-.09230	.26660
1.999	11.000	.40470	.13410	-.03680	-.02590	.00940	-.00490	-.11460	.25900
1.999	13.060	.48290	.13410	-.04440	-.02490	.00920	-.00470	-.13650	.24910
1.999	15.130	.55770	.13100	-.04730	-.02450	.00920	-.00450	-.15800	.24380
1.999	17.280	.64200	.12650	-.05060	-.02310	.00920	-.00470	-.18130	.24510
1.999	19.390	.73060	.12560	-.05370	-.02320	.00920	-.00480	-.20630	.24050
1.999	21.450	.81690	.12420	-.05660	-.02320	.00860	-.00500	-.23150	.24510
1.999	23.460	.90260	.12050	-.05930	-.02370	.00820	-.00500	-.25430	.24200
1.999	25.500	.99750	.11600	-.06240	-.02330	.00780	-.00480	-.27290	.22170
1.999	27.740	1.08900	.11100	-.06600	-.02150	.00720	-.00400	-.29120	.16230
2.003	GRADIENT	.03617	-.02061	-.00469	.00024	-.00017	.00011	-.01026	-.00395

DATE 28 SEP 73

PAGE 118

TABULATED SOURCE DATA AVES 66-706 (0A43)

(AUTO18) (26 AUG 73)

AVES 66-706 0A43 B1D C5 D7 HS F4 W87E18 V8R5

REFERENCE DATA

SREF = 2890.0000 98. FT. ZMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = 5.000 SPOBRK = 54.900
 BOPLP = -14.200 RUDDER = .000
 ELVN-L = -15.000 ELVN-R = -25.000

RUN NO. 83/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.601	-2.207	-30490	.11300	.18640	-.00440	.00250	.00250	.00000	-.02090
.602	-1.163	-30490	.11450	.18290	-.00590	.00210	.00260	.00000	-.02110
.603	1.877	-23020	.11330	.19150	-.00480	.00200	.00040	.00000	-.02380
.599	3.977	-11090	.11060	.18210	-.00290	.00160	.00170	.00000	-.01650
.600	5.993	-01590	.10170	.18450	-.00330	.00170	.00090	.00000	-.01640
.599	8.178	.08720	.09020	.18310	-.00300	.00100	-.00180	.00000	-.01870
.602	10.230	.20390	.08240	.18340	-.00100	.00080	-.00260	.00000	-.01780
.600	12.190	.30820	.08490	.17970	-.00190	.00080	-.00260	.00000	-.01790
.599	14.400	.42060	.08610	.17680	-.00240	.00100	-.00050	.00000	-.01720
.600	16.400	.53150	.08910	.16670	-.00150	.00060	-.00050	.00000	-.01620
.601	18.420	.64250	.08720	.16310	-.00390	.00070	.00030	.00000	-.01190
.601	20.510	.75940	.08260	.16360	-.00380	.00070	.00070	.00000	-.01040
.600	22.620	.86230	.07960	.17510	-.00440	.00210	.00610	.00000	-.01340
.602	24.670	.91250	.07300	.19630	-.00120	.00140	.00340	.00000	-.01650
.595	26.620	.95390	.06860	.25690	.00310	.00200	.00340	.00000	.00055
GRADIENT	.04648	-.00032	-.00022	-.00122	.00027	-.00011	-.00023	.00000	.00000

RUN NO. 82/ 0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.698	-1.985	-38580	.15110	.21440	-.01540	.00350	.00820	.00000	-.02570
.904	.069	-28030	.15110	.19830	-.01500	.00320	.00880	.00000	-.02220
.902	2.199	-12120	.14270	.17620	-.01510	.00400	.00740	.00000	-.02340
.902	4.334	.02320	.13960	.15590	-.01340	.00330	.00600	.00000	-.02230
.901	6.398	.15910	.14040	.13630	-.01340	.00320	.00550	.00000	-.02010
.903	8.530	.28690	.13720	.12740	-.01370	.00270	.00500	.00000	-.01980
.900	10.680	.41220	.14050	.10260	-.01370	.00160	.00280	.00000	-.02010
.900	12.660	.51370	.13820	.10100	-.01770	.00110	-.00050	.00000	-.02010
.902	14.750	.59660	.13960	.09690	-.01400	-.00080	-.00150	.00000	-.02110
.902	16.860	.70750	.14220	.10070	-.00210	-.00070	.00130	.00000	-.02280
.902	18.930	.78910	.14220	.11240	-.00020	-.00130	.00220	.00000	-.02630
.899	20.990	.86300	.14360	.13510	.00000	-.00170	.00220	.00000	-.02820
.901	23.050	.93080	.15100	.16280	.00370	-.00100	.00230	.00000	-.02820
.901	25.160	.94760	.15120	.20630	.02050	-.00460	-.00210	.00000	-.02970
.897	27.130	.99330	.11630	.22610	.01640	-.00200	-.00130	.00000	-.02970
GRADIENT	.06480	-.00204	-.00094	-.00943	.00026	-.00031	-.00037	.00000	.00000

DATE 20 SEP 73

(ASTD10) (24 AUG 73)

AVES 63-706 0A43 B10 C5 D7 M3 P4 W372'S VARS

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = 5.000 SPDRK = 54.900
 BOOFLP = -14.200 RUDDER = .000
 ELVHL = -19.000 ELVNR = -25.000

REFERENCE DATA

WREF = 2000.0000 90.FT. WREF = 1076.4003 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 81/0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.199	-1.893	-25640	.19900	.16690	-.01920	.00690	.00640	.00000	-.01180
1.202	.216	-.12800	.19850	.13850	-.01760	.00620	.00610	.00000	-.00790
1.203	2.343	.00180	.19640	.11260	-.01570	.00320	.00310	.00000	.00000
1.205	4.422	.12780	.19400	.08690	-.01470	.00310	.00310	.00000	.00000
1.209	6.525	.24120	.19090	.07600	-.01470	.00330	.00460	.00000	.00280
1.199	8.616	.35720	.18650	.06200	-.01300	.00400	.00450	.00000	.00290
1.199	10.810	.47650	.18370	.04910	-.01150	.00400	.00480	.00000	-.01910
1.201	12.840	.58690	.18260	.04190	-.00800	.00250	.00480	.00000	-.02140
1.200	15.000	.70960	.17900	.03040	-.00800	.00300	.00350	.00000	-.02370
1.199	17.100	.82770	.17580	.01760	-.00950	.00350	.00160	.00000	-.01630
1.200	19.150	.92310	.17380	.01740	-.00470	.00320	.00160	.00000	-.01700
1.210	21.240	1.00600	.16850	.02390	-.00470	.00170	.00410	.00000	-.01630
1.198	23.400	1.07600	.15960	.04540	-.00360	.00030	.00410	.00000	-.03770
1.196	25.370	1.09900	.15510	.08250	.01430	-.00450	-.00140	.00000	-.00370
1.196	27.440	1.14000	.14590	.10810	.00850	-.00240	.00170	.00000	.00177
GRADIENT		.06116	-.00101	-.01263	.00373	-.00029	-.00123	.00000	

RUN NO. 80/0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.504	-2.043	-.18640	.18700	.10430	-.01240	.00390	.00190	.00000	-.01310
1.502	.053	-.08470	.18350	.08610	-.1260	.00390	.00150	.00000	-.01380
1.503	2.176	.01360	.18130	.06660	-.01250	.00360	.00330	.00000	-.01390
1.503	4.266	.11670	.17350	.05280	-.01260	.00380	.00340	.00000	-.01410
1.504	6.367	.21330	.16690	.03910	-.01150	.00300	.00300	.00000	-.01090
1.504	8.444	.31140	.16510	.02910	-.01130	.00310	.00320	.00000	-.01050
1.504	10.580	.41040	.16310	.01760	-.01020	.00290	.00340	.00000	-.01140
1.504	12.610	.50790	.16180	.00770	-.00860	.00170	.00460	.00000	-.02750
1.504	14.740	.60800	.15760	-.00340	-.00570	.00110	.00470	.00000	-.02220
1.504	16.830	.70390	.15500	-.01830	-.00590	.00080	.00470	.00000	-.02160
1.503	19.020	.80210	.15170	-.01000	-.00520	.00060	.00460	.00000	-.02180
1.503	21.040	.89680	.15110	-.01300	-.00410	.00030	.00430	.00000	-.02350
1.500	23.120	.99630	.14630	-.01350	-.00290	-.00050	.00400	.00000	-.02570
1.501	25.230	1.08900	.14460	-.00990	-.00150	-.00000	.00400	.00000	-.04100
1.501	27.310	1.17200	.13610	-.00140	-.00110	-.00250	.00490	.00000	-.00000
GRADIENT		.04766	-.00206	-.00817	-.00002	-.00006	-.00002	.00000	

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0A43)

PAGE 120

(ABT018) (24 AUG 73)

ANES 66-706 0A43 B10 C5 D7 N3 F4 W07E18 V5R3

REFERENCE DATA

SREF = 2690.0000 58. FT. XREF = 1076.4800 IN.
 LREF = 474.8000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = 5.000 SPOBRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = -15.000 ELVN-R = -25.000

RUN NO. 79/ 0 RN/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CEL	O-E	CHR
1.998	-1.489	-.11450	.15180	.05180	-.00490	.00100	.00380	.25200	-.02160
2.006	.594	-.03480	.14860	.03960	-.00510	.00100	.00380	.21600	-.02010
2.009	2.695	.04110	.14820	.02940	-.00540	.00060	.00360	.18670	-.02150
2.006	4.787	.11940	.14220	.02000	-.00570	.00040	.00380	.14970	-.01960
2.003	6.402	.19530	.13620	.01250	-.00580	.00050	.00350	.12520	-.01920
2.000	8.669	.27170	.13400	.00360	-.00490	.00030	.00340	.10260	-.01980
2.001	11.020	.39050	.12990	.00020	-.00310	.00000	.00270	.07440	-.01780
2.000	13.180	.42370	.12650	-.00420	-.00250	.00010	.00240	.05070	-.01780
2.001	15.180	.50400	.12450	-.00600	-.00240	.00010	.00240	.03200	-.01640
2.000	17.800	.56360	.12150	-.00890	-.00240	.00000	.00240	.01750	-.01590
2.001	19.300	.66780	.11930	-.01170	-.00160	.00000	.00270	.00250	-.01820
2.001	21.390	.75330	.11310	-.01360	-.00130	-.00010	.00280	-.01540	-.02280
1.999	23.440	.83790	.10600	-.01410	-.00110	-.00050	.00280	-.03100	-.02420
1.999	25.510	.92620	.10400	-.01570	-.00030	-.00120	.00310	-.04250	-.02680
1.999	27.610	1.01700	.10400	-.01570	-.00030	-.00120	.00310	-.05120	-.03010
GRADIENT		.03715	-.00137	-.00505	-.00013	-.00011	-.00014	-.01626	.00025

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0A43)

ANES 66-706 0A43 B10 C5 D7 W5 P4 W87C10 VSR5

(ABT019) (24 AUG 73)

REFERENCE DATA

SFCT = 2690.0000 54. FT. XMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AIRCON = .000 SPOBRK = 34.900
 BOOFLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 87/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.800	-4.431	.50740	.06990	.02870	.09050	-.00350	.00810	.00950	-.07760
.805	-2.333	.50420	.07280	.03100	.09010	-.00360	.00420	.01420	-.04220
.810	-2.287	.50470	.07320	.03190	.01290	-.00230	.00010	.01720	-.00750
.804	.726	.50570	.07570	.03080	-.00330	-.00160	-.00160	.01920	.01060
.804	1.691	.50690	.07470	.03060	-.02040	-.00060	-.00280	.02160	.02640
.802	3.831	.51280	.07060	.02530	-.03960	.00110	-.00490	.02550	.03410
.800	5.767	.51950	.06630	.02320	-.10430	.00520	-.00610	.02820	.06330
.801	7.725	.52310	.06460	.01860	-.14720	.00850	-.00940	.03120	.10180
.598	9.948	.52350	.06290	.01280	-.19350	.00910	-.01340	.03670	.13660
.602	11.090	.52440	.06270	.01010	-.21970	.00900	-.01460	.03800	.15200
GRADIENT		.00061	.00022	-.00032	-.01801	.00075	-.00162	.00191	.00169

RUN NO. 86/ 0 RN/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	OE	OR
.901	-4.685	.53850	.12720	.00700	.10670	-.01230	.00790	.00460	-.11290
.902	-2.658	.53950	.12610	.00680	.05630	-.00680	.00520	.00820	-.06740
.904	-.632	.53910	.12680	.00740	.01550	-.00310	.00150	.01060	-.02910
.903	.396	.53980	.12540	.00810	-.00080	-.00210	.00000	.01410	-.00340
.901	1.592	.54220	.12860	.00640	-.02770	.00000	-.00150	.01630	.02580
.903	3.524	.53970	.12710	.00670	-.06560	.00440	-.00480	.01780	.03310
.903	5.545	.54980	.12800	.00070	-.11260	.00880	-.00380	.02500	.09180
.902	7.683	.53860	.12590	.00300	-.16410	.01180	-.01290	.04320	.19420
.904	9.650	.55180	.12900	.00790	-.21230	.01270	-.01420	.04630	.15520
.901	10.740	.53770	.12760	-.00520	-.23490	.01200	-.01480	.05500	.16740
GRADIENT		.00025	.00008	-.00003	-.02062	.00193	-.00156	.00169	.02165

RUN NO. 85/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	OE	OR
1.200	-4.710	.59940	.16940	-.04850	.08560	-.00460	.00720	.00510	-.13310
1.201	-2.879	.59320	.16810	-.04460	.04880	-.00400	.00400	-.09720	-.08660
1.201	-.758	.59520	.16810	-.04500	.01360	-.00260	.00220	-.09130	-.03960
1.200	.291	.59620	.16870	-.04750	.00180	-.00290	-.00040	-.08930	-.01480
1.199	1.374	.60030	.16820	-.04890	-.02070	-.00200	-.00190	-.08300	.01870
1.199	3.318	.60420	.16850	-.05170	-.03570	-.00090	-.00410	-.07950	.01840
1.200	5.856	.60380	.16930	-.05360	-.09700	.00050	-.00530	-.07290	.10000
1.201	7.643	.60300	.16920	-.05660	-.13640	.00000	-.00630	-.06080	.11880
1.201	9.827	.60130	.16960	-.05790	-.17890	-.00060	-.00790	-.03480	.19000
1.200	10.800	.59710	.16900	-.05820	-.19920	-.00190	-.00860	-.03590	.21210
GRADIENT		.00080	-.00008	-.00032	-.01694	.00046	-.00139	.00314	.02359

DATE 28 SEP 73

TABULATED SOURCE DATA AWES (6-706 (0443))

(ABTD19) (24 AUG 73)

AWES 66-706 0443 810 C5 D7 M3 F4 W87E18 VSR5

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AIRLON = .000 SPOBRK = 94.900
 BOOFPL = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

REFERENCE DATA

SRF = 2690.0000 50. FT. YMRP = 1076.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 66/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.902	-4.446	.52420	.16080	-.09530	.07080	-.00010	.00570	-.13400	-.13430
1.900	-2.477	.52640	.16020	-.09560	.03850	-.00080	.00310	-.13140	-.08170
1.900	-.190	.52930	.15990	-.09580	.00480	-.00060	.00160	-.12640	-.02800
1.900	.604	.53100	.15950	-.09590	-.01020	-.00060	.00050	-.12560	-.00680
1.900	1.554	.52970	.16000	-.09520	-.02610	-.00080	-.00030	-.12230	.01810
1.900	3.626	.52980	.16070	-.09400	-.05930	-.00110	-.00240	-.11200	.06810
1.900	5.729	.52860	.16130	-.06120	-.09590	-.00210	-.07440	-.10470	.11060
1.900	7.790	.52420	.16000	-.06180	-.13360	-.00410	-.00610	-.09590	.15750
1.499	9.764	.51980	.15940	-.06340	-.17530	-.00610	-.00750	-.08350	.20490
1.500	10.660	.51750	.15910	-.06340	-.19360	-.00770	-.00790	-.07840	.22880
1.500		.50077	-.00004	-.00064	-.01607	-.00010	-.00097	.00257	.02497

RUN NO. 84/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.996	-5.067	.40070	.13710	-.05030	.07690	.00080	.00520	-.12050	-.13990
1.999	-2.995	.40100	.13500	-.04860	.04390	.00010	.00300	-.11970	-.07920
1.999	-1.001	.40130	.13560	-.04830	.00000	-.00070	.00090	-.11800	-.02610
1.999	.024	.40230	.13630	-.04800	-.00090	-.00100	.00020	-.11710	-.00960
1.999	1.067	.40220	.13640	-.04840	-.01150	-.00150	-.00080	-.11600	.00470
1.999	3.065	.40290	.13570	-.04930	-.04680	-.00240	-.00280	-.11390	.04960
1.999	5.285	.40670	.13560	-.05230	-.08410	-.00330	-.00360	-.11190	.10480
1.999	7.417	.40640	.13520	-.05600	-.12160	-.00470	-.00780	-.10580	.15200
1.999	9.270	.40750	.13460	-.05970	-.15840	-.00500	-.00930	-.09850	.19740
1.997	10.270	.40730	.13470	-.06100	-.17740	-.00810	-.00990	-.09540	.21300
1.996		.00033	.00014	-.00011	-.01482	-.00041	-.00094	.00096	.02084

GRADIENT

ANES 66-706 CA43 BID C5 D7 M3 P4 M07E18 V5R5 (ABTIED) (24 AUG 73)

REFERENCE DATA

SREF = 2660.0000 54 FT. XMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 54.900
 BUDPLP = -14.800 RUDDER = .000
 ELWHL = .000 ELWHR = .000

RUN NO. 93/0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.598	-5.287	-.01310	.08980	.03480	.10350	-.00740	-.00150	.06950	-.07750
.598	-3.232	-.01970	.09190	.03790	.06620	-.00510	-.00250	.07180	-.05330
.598	-1.289	-.02190	.09470	.03840	.02750	-.00270	-.00270	.07350	-.02470
.598	-.266	-.02480	.09610	.03980	.00740	-.00180	-.00290	.07450	-.01350
.600	.806	-.02340	.09580	.03970	-.01030	.00030	-.00290	.07530	.00300
.600	2.845	-.02160	.09410	.03710	-.01740	.00180	-.00300	.07670	.01800
.600	4.889	-.01820	.09150	.03120	-.08810	.00440	-.00340	.07870	.04030
.599	6.920	-.01480	.08820	.02560	-.12920	.00770	-.00460	.08120	.07040
.601	8.974	-.00910	.08660	.02070	-.17580	.01180	-.00530	.08260	.09810
.602	9.917	-.00740	.08500	.01740	-.19860	.01390	-.00550	.08390	.11950
GRADIENT		.00024	-.00012	-.00077	-.01878	.00115	-.00012	.00084	.01125

RUN NO. 92/0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.899	-5.579	-.00980	.12100	.03650	.13630	-.01760	.00010	.07400	-.01030
.897	-3.504	-.00850	.11340	.03920	.08290	-.01050	-.00180	.07940	-.06800
.902	-.473	.00210	.11600	.03640	.01080	-.00260	-.00210	.09150	-.02690
.902	.4	.00300	.12060	.03460	-.01210	.00100	-.00100	.09750	-.00110
.901	2.581	.00280	.11870	.03280	-.05550	.00550	-.00080	.10530	.00890
.903	4.642	.00380	.12010	.02850	-.10830	.01220	-.00130	.11350	.03560
.899	6.661	.00700	.11930	.02280	-.15970	.01850	-.00220	.11200	.08640
.899	8.746	-.00030	.11480	.01700	-.20660	.02240	-.00330	.10850	.14040
.903	9.735	-.00180	.11790	.01370	-.23190	.02340	-.00230	.11000	.16610
GRADIENT		.00135	.00081	-.00128	-.02325	.00276	.00010	.00422	.01258

RUN NO. 91/0 RN/L = 2.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
1.196	-5.581	.02460	.17130	.02650	.10980	-.00910	.00380	.04390	-.13130
1.196	-3.558	.02190	.17130	.02920	.06850	-.00670	.00210	.05180	-.06880
1.199	-1.561	.02330	.17080	.03010	.03140	-.00450	.00030	.05970	-.13580
1.198	-.553	.02290	.17090	.02960	.01180	-.00300	-.00040	.06290	-.01740
1.197	.451	.02330	.17030	.02940	-.00530	-.00220	-.00130	.06750	-.00410
1.199	2.545	.02180	.16880	.02930	-.04540	.00020	-.00280	.07360	.02190
1.196	4.552	.01920	.16820	.02710	-.08520	.00340	-.00480	.08070	.05710
1.198	6.588	.01600	.16870	.02350	-.12840	.00550	-.00660	.08760	.10550
1.198	8.635	.01450	.16650	.01870	-.17300	.00760	-.00780	.08880	.17320
1.198	9.676	.01350	.16580	.01590	-.19580	.00710	-.00800	.10260	.20450
GRADIENT		-.00035	-.00042	-.00025	-.01889	.00122	-.00083	.00353	.01694

c-9

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0343)

ANES 66-706 0343 910 CS DT MO P4 M07E18 V088

(ASTT-00) (24 AUG 73)

REFERENCE DATA

SURF = 2690.0000 94. FT. SURP = 1076.4000 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

ALPHA = .000 ELEVON = .000
 AILLON = .000 SPOON = 94.000
 BOOPLP = -14.000 RUDDER = .000
 ELVHL = .000 ELVHLR = .000

PARAMETRIC DATA

RUN NO. 90/0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CH	CA	CLM	CY	CYN	CBL	CCE	CHR
1.999	-5.405	.00960	.1630	.01000	.00460	-.00490	.00300	.01840	-.14834
1.902	-3.434	.00890	.1660	.01000	.00410	-.00390	.00130	.00220	-.00880
1.900	-1.413	.00760	.1690	.01130	.00300	-.00270	-.00010	.00790	-.03640
1.900	-.396	.00700	.1650	.01130	.00240	-.00110	-.00060	.03760	-.01810
1.900	.629	.00810	.1640	.01110	-.01490	-.00080	-.00140	.03260	.00130
1.499	2.661	.00820	.1640	.00940	-.03160	.00110	-.00300	.03720	.03710
1.499	4.717	.00570	.16340	.00740	-.09170	.00260	-.00450	.04360	.00120
1.497	6.636	.00740	.1650	.00240	-.13320	.00400	-.00570	.05100	.14630
1.496	8.846	.00470	.16340	-.00170	-.17720	.00340	-.00480	.03460	.21330
1.499	9.891	.00470	.16110	-.00520	-.19960	.00330	-.00480	.06410	.24360
GRADIENT	-.00136	-.00015	-.00015	-.00046	-.01819	.00077	-.00071	.00256	.02162

RUN NO. 89/0 RN/L = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CH	CA	CLM	CY	CYN	CBL	CCE	CHR
1.999	-5.866	.01390	.14210	-.00960	.10340	-.00340	.00230	-.00150	-.16240
2.005	-3.946	.01470	.1400	-.00660	.06640	-.00240	.00120	-.00420	-.11960
2.002	-1.693	.01330	.14250	-.00610	.02850	-.00120	.00010	-.00190	-.05800
2.002	-.672	.01400	.14200	-.00590	.01110	-.00110	-.00030	-.00040	-.03070
1.999	.176	.01430	.14200	-.00530	-.00370	-.00060	-.00060	.00130	-.00710
1.999	2.204	.01240	.14200	-.00420	-.03450	-.00020	-.00120	.00520	.00230
1.999	4.290	.01030	.14020	-.00920	-.07720	.00030	-.00220	.01060	.00850
2.002	6.266	.01170	.14020	-.01300	-.11690	.00170	-.00330	.01710	.14620
1.999	8.323	.00650	.13760	-.01890	-.16160	.00260	-.00450	.02560	.22940
1.999	9.359	.00620	.13720	-.02270	-.18600	.00260	-.00450	.03060	.26490
GRADIENT	-.00046	-.00016	-.00016	-.00026	-.01716	.00029	-.00039	.00162	.02425

DATE 29 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

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AXES 66-706 0443 B10 C5 07 NO F4 087E18 V085

(ABTSC1) (24 AUG 73)

REFERENCE DATA

SHOT = 2000.0000 60.00 FT. XREF = 1076.4000 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 ALLCON = .000 SPDOCK = 54.900
 BOOPLP = -74.800 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

RUN NO. 96/0 RVL = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CN	CA	CLM	CY	CYN	CEL	CHE	CHR
.801	-2.263	-1.1320	.04360	.04100	-.10960	.00410	-.00220	.07970	.03010
.801	-.134	-.01340	.08480	.04150	-.10870	.00330	-.00400	.07960	.03170
.802	1.969	.07940	.08350	.04270	-.10540	.00340	-.00340	.04230	.03360
.803	4.043	.16410	.07660	.03970	-.10590	.00350	-.00360	.07360	.03600
.801	6.101	.29160	.07130	.03690	-.10700	.00360	-.00410	.06670	.03990
.802	6.128	.36990	.06260	.03430	-.10990	.00360	-.00430	.05030	.04330
.803	10.270	.51570	.06310	.02990	-.10530	.00490	-.00730	.02760	.04370
.800	12.270	.60470	.06220	.02990	-.10510	.00340	-.00460	-.00180	.04720
.999	14.500	.71360	.07260	.02350	-.10530	.00490	-.00720	-.02940	.04670
.800	16.410	.81690	.07680	.01250	-.10290	.00460	-.00690	-.06420	.07090
.802	18.560	.93350	.07810	.00820	-.10090	.00430	-.00700	-.07960	.07150
.801	20.620	1.06270	.07420	.01190	-.09760	.00290	-.00640	-.09730	.07140
.801	22.370	1.12500	.07070	.02400	-.09300	.00170	-.00570	-.10090	.06990
.800	24.670	1.10900	.06610	.07360	-.07760	.00180	-.01490	-.10190	.05610
.800	26.660	1.05700	.07130	.11460	-.04660	-.00190	-.00220	-.06630	.03720
GRADIENT	.04666	-.00062	-.00012	-.00012	-.00013	.00021	-.00168	-.00037	.00122

RUN NO. 97/0 RVL = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MAON	ALPHA	CN	CA	CLM	CY	CYN	CEL	CHE	CHR
.804	-1.964	-.09690	.11330	.04070	-.12920	.01450	.00010	.11260	.03710
.801	.119	.01430	.11290	.03670	-.12340	.01340	-.00250	.10800	.03670
.800	2.277	.11070	.11450	.04020	-.12330	.01390	-.00230	.13740	.04010
.899	4.393	.21920	.11120	.03670	-.11930	.01280	-.00340	.13510	.04100
.902	6.480	.32360	.11560	.03370	-.11310	.01100	-.00460	.13350	.04360
.901	6.322	.42670	.11520	.02560	-.10640	.00960	-.00910	.07030	.04950
.902	10.660	.53650	.11640	.01440	-.10340	.00660	-.00960	.02440	.07840
.900	12.700	.64590	.11630	.00000	-.10030	.00630	-.00930	-.03450	.06410
.899	14.750	.75720	.12270	-.00000	-.09940	.00590	-.00730	-.06140	.04620
.899	16.960	.86560	.12670	-.00620	-.09670	.00500	-.00750	-.12030	.04370
.901	18.930	.95620	.13260	-.00130	-.08770	-.01070	-.00960	-.13720	.04430
.901	21.020	1.00900	.13060	.02010	-.06560	-.01100	-.00990	-.16650	.03430
.900	23.060	1.03100	.13590	.05350	-.05370	-.01360	-.01010	-.16650	.02970
.902	25.270	1.11000	.14270	.09040	-.04330	-.02030	-.00910	-.16190	-.02070
.901	27.590	1.16600	.14160	.10130	-.03760	-.02330	-.00730	-.20150	-.04920
GRADIENT	.04920	-.00022	-.00010	-.00010	.00125	-.00023	-.00054	.00456	.00064

DATE 26 SEP 73

TABULATED SOURCE DATA AXES 66-706 (0443)

PAGE 126

(AST021) (24 AUG 73)

AXES 66-706 ON 43 BID CS DT HS P4 WATE16 VRS5

REFERENCE DATA

SRCP = 2000.0000 56 FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRCP = 236.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = 5.000 ELEVON = .000
 AIRLON = .000 SPOBRK = 54.900
 BODYLP = -14.200 RUDDER = .000
 ELWHL = .000 ELWHLR = .000

PARAMETRIC DATA

RUN NO. 96/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QCE	QCR
1.196	-1.824	-.06290	.16290	.04990	-.10550	.01650	-.00470	.09790	.07370
1.201	-1.49	-.03470	.16420	.02670	-.10240	.00580	-.00900	.07760	.07920
1.205	2.499	.16680	.16940	.02460	-.10130	.00310	-.00590	.03320	.06920
1.200	4.553	.28940	.16650	-.01690	-.09640	.00390	-.00430	.02710	.06600
1.203	6.574	.39760	.16600	-.03060	-.09680	.00400	-.00420	-.00780	.06340
1.203	6.662	.50440	.16610	-.04060	-.09670	.00360	-.00520	-.04030	.09480
1.203	10.820	.62470	.16960	-.05340	-.09460	.00270	-.00460	-.06350	.06460
1.204	12.640	.73370	.16910	-.06390	-.08990	.00190	-.00340	-.13160	.06720
1.204	15.040	.84970	.17020	-.06690	-.09190	.00090	-.00150	-.16480	.09250
1.199	17.220	.96480	.17120	-.07670	-.08770	-.00020	-.00150	-.23370	.09480
1.199	19.100	1.06700	.16990	-.08090	-.08570	-.00450	-.00150	-.26950	.09210
1.200	21.240	1.14670	.16290	-.07680	-.08450	-.00440	-.001250	-.29320	.06640
1.200	23.340	1.16600	.15300	-.02770	-.04320	-.01840	-.01160	-.29420	.07500
1.200	25.360	1.20670	.14200	-.01440	-.04670	-.02000	-.00460	-.30370	-.02710
1.200	27.410	1.26300	.13450	.01600	-.04110	-.02460	-.00000	-.30370	.00048
GRADIENT		.05732	.00075	-.01007	.00102	-.00032	.00003	-.01142	

RUN NO. 95/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	QCE	QCR
1.496	-2.104	-.07530	.16430	.02660	-.10540	.00450	-.00360	.07660	.10490
1.502	-.030	.02270	.16340	.01070	-.10010	.00350	-.00460	.04930	.10660
1.502	2.101	.12560	.16290	-.01430	-.09610	.00220	-.00460	.02690	.10960
1.500	4.294	.22440	.16050	-.01910	-.09460	.00130	-.00470	-.00740	.11020
1.500	6.440	.32720	.15970	-.03430	-.09140	.00020	-.00470	-.03960	.10950
1.501	8.526	.42550	.16060	-.04770	-.08930	-.00060	-.00440	-.06670	.10240
1.501	10.590	.52460	.15950	-.05960	-.08660	-.00130	-.00450	-.10770	.09760
1.500	12.630	.62470	.15950	-.07110	-.08470	-.00250	-.00490	-.14450	.09410
1.500	14.790	.72440	.15660	-.07960	-.08230	-.00410	-.00470	-.16070	.09170
1.500	16.660	.82050	.15490	-.08460	-.08250	-.00620	-.00370	-.21530	.06640
1.500	18.930	.91480	.15220	-.08640	-.08090	-.00830	-.00340	-.24710	.07420
1.496	21.060	1.00900	.14720	-.08990	-.07400	-.01120	-.00340	-.26140	.02950
1.496	23.220	1.10600	.14460	-.09120	-.06820	-.01540	-.00250	-.30370	-.01170
1.502	25.270	1.19900	.14350	-.08660	-.05660	-.02050	-.00470	-.32920	-.03940
1.502	27.370	1.29100	.14240	-.08200	-.05500	-.02260	-.00470	-.35530	.00060
GRADIENT		.04676	-.00056	-.00710	.00170	-.00031	-.00013	-.01264	

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 10443

ANES 66-706 0443 B10 C5 D7 H0 F4 W07C18 V095

REFERENCE DATA

SREF = 2090.0000 34.17. 194P = 1076.4000 IN.
 LINEF = 474.6000 IN. 196P = .0000 IN.
 SREF = 936.6000 IN. 200P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 9.000 ELEVON = .000
 AIRBOR = .070 SPOROK = 94.900
 SCORLP = -14.800 RUSORC = .000
 ELW-L = .000 ELW-H = .070

RUN NO. 94/ 0 80/L = 2.45 GRADIENT INTERVAL = -8.00/ 9.00

MACN	ALPHA	CH	CA	CLM	CV	CYN	CEL	OC	OR
2.002	-1.600	-.04630	.14160	-.00170	-.10000	.00000	-.00000	.00360	.11600
2.006	.437	-.02500	.13900	-.01000	-.09600	.00100	-.00000	.00790	.12100
2.001	2.747	.11360	.13940	-.02000	-.09000	.00130	-.00330	-.00000	.12000
2.004	4.649	.16010	.13990	-.06000	-.08300	.00050	-.00370	-.00910	.11940
2.004	6.036	.20800	.13670	-.06000	-.08750	-.00000	-.00490	-.00000	.10900
2.006	8.032	.33490	.13900	-.04000	-.08400	-.00000	-.00430	-.00790	.10300
2.007	10.930	.41090	.13290	-.04760	-.08250	-.00170	-.00570	-.10000	.09700
2.005	13.090	.49310	.13190	-.05160	-.08000	-.00000	-.00610	-.13370	.09300
2.001	15.160	.57120	.12970	-.05610	-.07670	-.00400	-.00630	-.14000	.08900
1.999	17.290	.65320	.12970	-.05930	-.07400	-.00300	-.00630	-.16700	.07950
1.996	19.250	.73900	.12530	-.06290	-.07070	-.00000	-.00610	-.20000	.04400
1.996	21.340	.82470	.12190	-.06640	-.06400	-.01160	-.00630	-.22000	.01700
1.996	23.470	.91450	.11870	-.06770	-.05770	-.01390	-.00600	-.23170	-.00000
1.996	25.510	1.00100	.11490	-.07120	-.05600	-.01560	-.00600	-.27070	-.00000
1.996	27.630	1.09600	.11160	-.07500	-.05300	-.01670	-.00670	-.31010	-.00000
GRADIENT		.00676	-.00000	-.03432	.00100	-.00040	-.00110	-.01175	-.00000

(LAST) (13 SEP 73)

AMES 06-706 0443 B10 C3 D7 M3 P4 WTE18 VMS

REFERENCE DATA

SREF = 2880.0000 84-FT. WREF = 1076.4000 IN.
 LREF = 474.0000 IN. YREF = .0000 IN.
 BREF = 936.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 ALURON = .000 SPORON = 94.000
 SCFUP = -14.000 RUDGER = .000
 ELWHL = -20.000 ELWHL = -21.000

RUN NO. 0/0 RV/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OCE	JR
.803	-2.287	-42340	.11590	.19510	-.00290	-.00160	-.00910	.28070	-.00960
.802	-2.282	-31870	.11600	.19040	-.00280	-.00150	-.00900	.27640	-.00910
.802	1.889	-23420	.11682	.19370	-.00070	-.00080	-.00890	.27930	-.01210
.801	3.949	-11170	.11590	.18990	.00000	-.00170	-.00460	.27410	-.00910
.802	6.015	-.01670	.10560	.18650	.00260	-.00200	-.00460	.26930	-.01130
.803	8.098	.08640	.09520	.18470	.00360	-.00240	-.00590	.24990	-.01260
.802	10.200	.20410	.08620	.18220	.00430	-.00230	-.00540	.23590	-.01440
.800	12.280	.31840	.09190	.17710	.00490	-.00180	-.00290	.21770	-.01290
.803	14.350	.42070	.09250	.17540	.00450	-.00160	-.00210	.19940	-.01290
.800	16.390	.52800	.09670	.16640	.00400	-.00160	-.00160	.17990	-.01280
.804	18.390	.62990	.08590	.16790	.00400	-.00190	-.00160	.17330	-.00990
.801	20.450	.74150	.09560	.17630	.00430	-.00190	-.00120	.17110	-.00990
.596	22.650	.84190	.09120	.18000	.00330	-.00260	-.00290	.16660	-.01130
.800	24.520	.89010	.08470	.20400	.00390	-.00240	-.00140	.13060	-.01670
.598	26.560	.86070	.08110	.23990	.00360	-.00140	-.00420	.13060	-.01660
GRADIENT		.04771	-.00326	-.00115	.00040	-.00001	-.00002	-.00132	-.00004

RUN NO. 0/0 RV/L = 2.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OCE	JR
.902	-2.110	-.39690	.14720	.22040	.00070	-.00100	.00010	.45290	-.01660
.903	-.040	-.26920	.14600	.20100	.00050	-.00100	-.00070	.43750	-.01790
.903	2.260	-.11790	.14220	.17770	.00230	-.00160	-.00140	.40240	-.01790
.900	4.390	.02470	.14020	.15640	.00190	-.00150	-.00130	.37330	-.01560
.900	6.460	.16610	.13610	.13660	.00340	-.00160	-.00100	.34260	-.01560
.901	8.660	.29530	.13640	.11950	.00430	-.00210	-.00040	.30920	-.01530
.901	10.630	.42250	.14070	.09770	.00540	-.00260	-.00040	.26210	-.01640
.903	12.670	.52100	.14010	.09400	.00320	-.00210	.00170	.24040	-.01320
.901	14.690	.60460	.14540	.09970	.00350	-.00250	.00240	.23390	-.01330
.906	16.940	.69690	.14610	.10420	.00320	-.00310	.00270	.22660	-.01350
.901	18.600	.76740	.14960	.11300	.00280	-.00320	.00260	.21650	-.01610
.900	20.940	.86340	.15190	.13410	.00310	-.00390	.00260	.20460	-.01670
.899	23.000	.91600	.15590	.16170	.00330	-.00290	.00260	.19360	-.01630
.896	25.020	.92650	.15910	.20640	.00250	-.00350	-.00010	.18430	-.01220
.905	27.100	1.04100	.16470	.21010	.00240	-.00260	-.00030	.16430	-.01220
GRADIENT		.06496	-.00114	-.00966	.00025	-.00010	-.00022	-.01259	-.00036

DATE 28 SEP 75

TABULATED SOURCE DATA AVECS 66-T06 (0A43)

AVES 66-T06 0A43 810 CS 07 NS 74 W97E18 V915

(ABT0002) (13 SEP 75)

REFERENCE DATA

SLOT = 2090.0000 24.71. 1989 = 1076.4000 IN.
LWST = 474.0000 IN. 1989 = .0000 IN.
SLOT = 936.0000 IN. 2001 = 400.0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -85.900
ALLCOM = .000 SPDSMA = 54.000
SCDFLP = -14.870 RUGROD = .000
ELW-L = -50.000 ELW-R = -80.000

RUN NO. 0/0 RV/L = 2.52 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CL	OE	OR
1.197	-1.902	-26990	.19830	.17330	.00000	-.00040	-.00130	.43740	-.00070
1.201	.123	-.19720	.09790	.14470	.00190	-.00030	-.00110	.39120	-.00080
1.201	2.374	-.00250	.19790	.11010	.00000	-.00070	-.00130	.39070	-.00080
1.201	4.318	.11590	.19570	.09810	.00430	-.00070	-.00050	.38340	-.01000
1.199	6.567	.25680	.19430	.07930	.00410	-.00080	.00030	.30140	-.01040
1.200	8.651	.34970	.19200	.06680	.00380	-.00080	.00010	.27790	-.01790
1.200	10.760	.48830	.19030	.05270	.00360	-.00080	-.00020	.24990	-.01600
1.200	12.770	.56090	.18800	.04300	.00410	-.00080	-.00070	.21290	-.01680
1.200	14.990	.70460	.18330	.02990	.00220	-.00140	.00010	.17000	-.01010
1.198	17.190	.83140	.18140	.01670	.00290	-.00120	.00020	.11290	-.01310
1.197	19.180	.92320	.17900	.01930	.00400	-.00080	.00030	.01130	-.01180
1.200	21.180	1.00000	.17510	.02330	.00400	-.00080	.00020	.00970	-.01090
1.200	23.290	1.06000	.16990	.04280	.00230	-.00070	.00030	.00900	-.01370
1.199	25.330	1.09000	.16160	.06780	.00170	-.00020	.00060	.04000	-.01370
1.200	27.390	1.13600	.15430	.10940	.01970	-.00230	.00010	.00100	-.01330
GRADIENT		.06116	-.00034	-.01235	.00033	-.00076	.00013	-.01631	.00046

RUN NO. 0/0 RV/L = 2.49 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CL	OE	OR
1.498	-2.075	-19430	.16520	.10920	-.00120	-.00240	-.00060	.35970	-.01980
1.501	-.027	-.09370	.16280	.09170	-.00180	-.00250	-.00080	.31140	-.01040
1.501	2.149	.01060	.16720	.07160	-.00140	-.00220	-.00090	.27090	-.01720
1.501	4.294	.11630	.17440	.05440	-.00140	-.00210	-.00080	.23290	-.01930
1.501	6.426	.21300	.17190	.04160	-.00120	-.00080	-.00040	.20390	-.01900
1.498	8.390	.30660	.16460	.03210	-.00190	-.00160	-.00030	.18700	-.01990
1.498	10.560	.41260	.16000	.01970	-.00190	-.00160	-.00030	.15160	-.01930
1.499	12.570	.51000	.16520	.00790	-.00120	-.00180	.00020	.06070	-.01990
1.499	14.740	.61190	.16230	-.00020	-.00130	-.00120	.00020	.04410	-.01410
1.499	16.760	.70410	.15970	-.00560	-.00170	-.00120	-.00010	.00920	-.01370
1.501	18.900	.80320	.13750	-.01140	-.00170	-.00110	-.00030	-.01960	-.01410
1.499	20.270	.90100	.15700	-.01490	-.00100	-.00090	-.00030	-.04130	-.01410
1.499	23.100	.99930	.15970	-.01580	-.00100	-.00090	.00030	-.09900	-.01370
1.498	25.110	1.09200	.15130	-.01270	-.00100	-.00090	.00040	-.07130	-.02480
1.501	27.350	1.17600	.14420	-.00340	-.00060	-.00180	.00000	-.01696	-.00033
GRADIENT		.04663	-.00164	-.00667	-.00001	.00004	.00009		

DATE 20 SEP 75

TABULATED SOURCE DATA AMES 60-706 (0443)

(ASTORE) (13 SEP 75)

AMES 60-706 0443 810 C9 BT 16 P4 107010 VMS

PARAMETRIC DATA

BETA = .020 ELEVON = -60.000
 ALUMON = .000 SPINON = 94.000
 BODPLP = -14.800 RUSSON = .000
 ELVH-L = -80.000 ELVH-R = -80.000

REFERENCE DATA

WREF = 2000.0000 80.00 IN. WREF = 1070.4000 IN.
 LREF = 474.0000 IN. WREF = .0000 IN.
 BREF = 934.0000 IN. WREF = 400.0000 IN.
 SCALE = .0100 SCALE

RUN NO. 0/0 RVL = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	ON	CA	CLM	CY	CYN	CM	OC	OR
1.996	-1.543	-1.2830	.1320	.05790	-.00400	-.00180	-.00100	.82040	-.00000
1.999	.332	-.04230	.19100	.04400	-.00110	-.00110	-.00000	.80000	-.00010
2.001	2.840	.03500	.14790	.03840	-.00080	-.00110	-.00000	.10400	-.01280
2.001	4.003	.11170	.14400	-.00400	-.00000	-.00110	-.00000	.12000	-.01130
2.001	6.701	.10910	.14100	-.00300	-.00000	-.00000	-.00000	.10130	-.01270
1.996	8.834	.80000	.13500	.00990	-.00300	-.00000	-.00000	.07770	-.01300
1.996	10.260	.34400	.13290	.00320	-.00310	-.00000	-.00000	.00000	-.01400
1.996	12.900	.42210	.13040	-.00400	-.00300	-.00000	-.00000	.00000	-.01300
1.996	15.070	.40000	.12790	-.00400	-.00290	-.00000	-.00000	.00000	-.01280
1.996	17.190	.50290	.12640	-.01090	-.00290	-.00000	-.00000	-.00340	-.01280
1.996	19.220	.66710	.12530	-.01160	-.00300	-.00000	-.00000	-.02170	-.01400
1.996	21.310	.79210	.12270	-.01300	-.00310	-.00000	-.00000	-.04180	-.01340
1.996	23.400	.83000	.11930	-.01470	-.00290	-.00000	-.00000	-.05070	-.01340
1.996	25.430	.98340	.11500	-.01710	-.00290	-.00000	-.00000	-.06000	-.01600
1.996	27.540	1.01700	.11010	-.01800	-.00200	-.00000	-.00010	-.07000	-.01690
1.995		.03799	-.00199	-.00577	-.00001	-.00001	-.00000	-.01773	-.00003

GRADIENT

DATE 28 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0A43)

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ARES 66-706 0A43 B10 C5 D7 M3 P4 W5TE18 VMS

(ASTRES) (29 JUN 73)

REFERENCE DATA

SREF = 2480.0000 24.71. 100P = 1076.4000 IN.
 LREF = 474.0000 IN. 100P = .0000 IN.
 BREF = 936.0000 IN. 200P = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELEVON = -80.000
 ALLCON = 5.000 SPORNS = 34.000
 BODYLP = -14.000 RUDDER = .000
 ELVN-L = -15.000 ELVN-R = -89.000

PARAMETRIC DATA

RUN NO. 105/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	OCE	OCR
.804	-2.347	-.42100	.11340	.16920	-.01440	.00480	.00870	.89660	-.03940
.809	-.106	-.31010	.11740	.18430	-.01530	.00420	.00370	.29100	-.03990
.810	1.800	-.21290	.11720	.18300	-.01500	.00390	.00390	.26070	-.03910
.808	4.084	-.09910	.11230	.17490	-.01120	.00380	.00400	.26950	-.03920
.802	6.087	-.00860	.10430	.17860	-.00870	.00280	.00260	.25790	-.03620
.999	8.101	.10020	.09460	.17590	-.00360	.00200	.00190	.22970	-.03920
.800	10.250	.21260	.08640	.17420	-.00370	.00160	.00150	.21900	-.04090
.999	12.250	.31830	.09070	.17470	.00220	.00070	-.00190	.20090	-.03990
.801	14.420	.43010	.09150	.16750	.00060	.00100	-.00120	.17830	-.04010
.998	16.400	.54040	.09530	.16070	.00140	.00110	.00010	.16770	-.03960
.803	18.460	.63290	.09300	.15520	.00270	.00170	.00030	.17020	-.03660
.802	20.450	.76010	.08990	.15770	-.00030	.00170	.00020	.17780	-.03690
.999	22.520	.86310	.08730	.16390	-.00020	.00160	.00020	.15910	-.04140
.801	24.590	.91310	.08300	.18370	.00190	.00150	.00750	.14410	-.04540
.999	26.530	.99870	.07940	.22440	.00390	.00390	.00350	.14410	-.00006
GRADIENT		.04969	-.00017	-.00212	.00065	-.00012	.00019	-.00243	

RUN NO. 104/ 0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CEL	OCE	OCR
.903	-2.043	-.37910	.14790	.20240	-.02400	.00770	.00900	.43180	-.02650
.900	.066	-.24730	.14420	.18660	-.02590	.00740	.00940	.42710	-.02720
.902	2.253	-.11410	.14110	.16900	-.02140	.00620	.00850	.39570	-.02770
.901	4.364	.03410	.14300	.14830	-.02020	.00550	.00740	.36400	-.02710
.901	6.444	.16970	.14010	.12860	-.01840	.00520	.00670	.34130	-.02710
.901	8.579	.29310	.14420	.11440	-.01600	.00410	.00520	.32450	-.02710
.901	10.660	.41650	.14060	.09560	-.01650	.00400	.00280	.26290	-.02940
.906	12.660	.53240	.14860	.09010	-.01070	.00260	.00310	.22720	-.03030
.997	14.690	.56560	.13970	.09600	-.00410	.00090	.00220	.17370	-.03490
.902	16.690	.70200	.14550	.09500	-.00310	.00070	.00180	.17920	-.03230
.902	18.640	.79940	.15110	.10260	-.00280	.00010	.00170	.16430	-.03340
.904	21.030	.87920	.15300	.12400	-.00210	-.00070	.00300	.16730	-.03620
.903	23.070	.93920	.15920	.15240	.00290	-.00010	.00260	.20090	-.03500
.903	25.060	.96770	.16340	.19420	.00230	-.00040	.00300	.19560	-.03330
.903	27.160	1.03100	.16030	.20690	.00220	-.00260	.00360	.15690	-.03790
GRADIENT		.06401	-.00063	-.00932	.00074	-.00016	-.00027	-.01375	-.00011

DATE 29 SEP 75

TABULATED SOURCE DATA ANG3 66-T06 (CA43)

ANG3 66-T06 CA43 B10 C5 D7 NS P4 WATE10 VMS1

(ABT084) (29 JUN 75)

PAGE 132

REFERENCE DATA

SIG7 = 2000.0000 98.77. 1000P = 1076.4600 IN.
 LREF = 474.8000 IN. 1000P = .0000 IN.
 SIG7 = 936.6000 IN. 2000P = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOR = .000
 ALLORR = .000 SPOROR = 24.900
 BODFLP = -14.200 RUDDER = .000
 ELW-L = .000 ELW-R = .000

RUN NO. 114/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CL	CHE	CHR
.998	-2.131	-1.130	.06670	.02600	-.00350	-.00050	-.00210	.07600	-.00600
.999	.029	-.00.80	.06790	.02520	-.00190	-.00030	-.00230	.07630	-.00430
.998	2.064	.09940	.06600	.02650	-.00140	-.00040	-.00300	.07740	-.00350
.801	4.171	.19620	.06110	.02250	-.00140	-.00030	-.00310	.07160	-.00430
.801	6.149	.29940	.05280	.01960	-.00050	-.00050	-.00260	.06070	-.00450
.801	8.210	.40770	.04430	.01750	-.00020	-.00040	-.00220	.04590	-.00360
.801	10.310	.52220	.04900	.01070	-.00110	-.00020	-.00090	.02020	-.00360
.801	12.350	.62050	.05470	.00770	-.00110	-.00020	-.00100	-.00160	-.00450
.800	14.400	.71840	.06000	.00360	-.00120	-.00010	-.00040	-.03070	-.00450
.999	16.360	.84170	.06310	-.00060	-.00060	.00000	.00040	-.06950	-.00370
.803	18.460	.97030	.06180	-.01590	-.00050	.00010	.00080	-.06210	-.00150
.802	20.530	1.07500	.05670	-.01190	-.00040	-.00000	.00160	-.09310	-.00080
.996	22.750	1.15900	.05660	.00010	-.00040	-.00040	.00280	-.09550	-.00600
.800	24.960	1.13400	.05420	.00550	.00050	-.00060	.00310	-.09550	-.00070
.602	26.990	1.05100	.05260	.10920	-.00190	.00150	.00000	-.07660	-.00016
GRADIENT	.04746	-.00066	-.00044	.00033	.00002	-.00016	-.00016	-.00055	.00016

RUN NO. 111/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CL	CHE	CHR
.700	-1.599	-.09670	.06610	.02670	-.00140	-.00040	-.00220	.06220	.00330
.701	-.014	-.00200	.06630	.02690	-.00170	-.00040	-.00230	.06370	.00330
.698	2.216	.09670	.06460	.02660	-.00020	-.00070	-.00280	.06780	.00400
.701	4.236	.20520	.06140	.02490	-.00010	-.00060	-.00310	.06330	.00330
.701	6.276	.31620	.05310	.01960	-.00070	-.00070	-.00270	.06940	.00330
.700	8.322	.43060	.05250	.01500	.00030	.00020	-.00040	.04510	.00400
.699	10.410	.52130	.06070	.01130	.00030	-.00030	.00010	.01490	.00470
.698	12.420	.61740	.06360	.00920	.00110	-.00030	-.00020	-.03770	.00340
.701	14.500	.72130	.07120	-.00040	.00020	-.00020	.00010	-.05740	.00470
.701	16.640	.85060	.07240	-.00030	-.00010	-.00010	.00010	-.07600	.00540
.699	18.630	.95060	.07220	-.00040	-.00070	-.00030	.00050	-.06730	.00310
.700	20.630	1.02300	.07160	.00400	-.00030	-.00030	.00090	-.06630	.00170
.698	22.690	1.08500	.06840	.03060	.00010	.00010	.00480	-.06930	.01060
.700	24.660	1.02800	.07320	.09110	-.00200	.00100	.00060	-.07510	.00940
.696	26.660	1.03600	.08030	.11710	.00160	.00170	.00060	-.07510	.00004
.701	28.660	.04632	-.00065	-.00045	.00026	-.00004	-.00015	.00036	.00004
GRADIENT	.04632	-.00065	-.00045	.00026	.00002	-.00015	-.00015	.00036	.00004

DATE 28 SEP 73

TABULATED SOURCE DATA AES 66-706 (0A43)

AES 66-706 0A43 810 C5 07 MS P4 M97E18 V983

(ABT024) (29 JUN 73)

REFERENCE DATA

SREF = 2490.0000 56.47. 100P = 1076.4800 IN.
 LREF = 374.8000 IN. 100P = .0000 IN.
 BREF = 936.8000 IN. 200P = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELEVON = .000
 ALURON = .000 SPOBRK = 24.900
 BOPFLP = -14.200 RUDDER = .000
 ELVH-L = .000 ELVH-R = .000

PARAMETRIC DATA

RUN NO. 110/ 0 RVL = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CBL	QCE	QCR
.802	-1.939	-1.0160	.06880	.03830	-.00180	-.00030	-.00850	.08780	.00940
.801	.132	.00620	.07300	.06980	-.00060	-.00040	-.00340	.08060	.00840
.800	2.291	.10790	.06970	.03100	.00100	-.00110	-.00400	.10040	.00300
.800	4.346	.22870	.06350	.02240	.00160	-.00100	-.00410	.08290	.00840
.802	6.433	.33150	.06740	.01880	.00190	-.00090	-.00180	.06390	.00300
.802	8.472	.41960	.07140	.01520	-.00030	-.00030	-.00270	.03640	.00300
.800	10.570	.52100	.07540	.01020	-.00030	-.00040	-.00010	.01910	.00360
.799	12.580	.61230	.07900	.00870	-.00030	-.00040	-.00010	-.00490	.00300
.801	14.650	.71090	.08650	.00730	.00210	-.00110	.00020	-.04170	.00240
.799	16.780	.83100	.08630	.00330	.00270	-.00110	.00190	-.06730	.00300
.797	18.740	.91960	.09080	.00170	.00290	-.00100	.00120	-.08140	.00240
.803	20.780	1.00000	.09310	.01240	-.00090	-.00090	.00090	-.09170	.00300
.805	22.790	1.04700	.09590	.03060	.00030	-.00060	.00260	-.06940	.00420
.799	24.810	1.01600	.10100	.10190	.00370	-.00070	.00070	-.07830	.00420
.801	26.900	1.06900	.10290	.11180	.00490	-.00010	.00030	-.10160	.00360
GRADIENT		.05169	-.00073	-.00132	.00049	-.00009	-.00020	.00123	.00003

RUN NO. 109/ 0 RVL = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CBL	QCE	QCR
.847	-1.622	-.09650	.07500	.03360	-.00090	-.00090	-.00350	.09550	.00000
.846	.140	.00900	.07750	.02820	.00100	-.00110	-.00390	.09710	.00120
.833	2.290	.11230	.07750	.02730	.00030	-.00090	-.00240	.10860	.00230
.833	4.439	.22440	.07660	.02440	-.00040	-.00060	-.00210	.10540	.00230
.832	6.470	.32200	.07770	.02180	-.00240	-.00030	-.00090	.07780	.00290
.832	8.536	.41720	.08330	.01670	-.00060	-.00060	-.00150	.03450	.00230
.851	10.630	.51700	.08640	.01270	-.00180	-.00020	-.00070	.03590	.00350
.849	12.620	.60990	.09190	.00730	-.00110	-.00020	-.00010	.00190	.00290
.831	14.730	.71760	.09660	.00200	.00150	-.00030	.00030	-.04370	.00290
.852	16.810	.84000	.09990	-.00720	.00270	-.00020	.00190	-.07510	.00230
.831	18.810	.93150	.10330	.00010	.00450	-.00020	.00060	-.09500	.00260
.848	20.900	1.01600	.10390	.00210	.00090	-.00020	.00030	-.10670	.00000
.848	22.910	1.03800	.10740	.00310	.00020	-.00020	.00010	-.10650	.00180
.849	24.940	1.05400	.11570	.09190	.00310	-.00090	.00010	-.10320	.00350
.851	27.000	1.13100	.11670	.09520	.00560	-.00020	-.00040	-.13730	.00170
GRADIENT		.05119	.00022	-.00135	-.00002	.00002	.00027	.00197	.00036

DATE 29 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(AST024) (29 JUN 73)

ANES 66-706 (0443) B10 C5 D7 M3 F4 W07E18 VSR3

REFERENCE DATA

SRP = 2890.0000 54. FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SRP = 934.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLUON = .000 SPOBRK = 24.900
 BOPLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 113/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	CVR
.896	-1.873	-0.0120	.08580	.02280	-.00180	-.00080	-.00240	.07920	-.07980
.896	.309	.02830	.06970	.01820	-.00200	-.00080	-.00240	.09410	-.00840
.903	2.402	.13060	.09100	.01690	-.00370	-.00040	.00070	.12650	-.00870
.900	4.475	.23840	.06970	.01540	-.00260	-.00080	.00000	.12040	-.07610
.903	6.511	.74710	.09230	.00790	-.00120	-.00090	-.00100	.06450	-.00580
.905	8.542	.45140	.09650	-.00250	-.00080	-.00070	-.00210	.05610	-.00390
.904	10.740	.55800	.10120	-.00840	-.00180	-.00080	-.00070	.02100	-.00390
.902	12.720	.65590	.10180	-.01830	-.00220	-.00100	-.00020	-.03570	-.00390
.896	14.810	.76870	.10680	-.02450	-.00210	-.00080	.00040	-.03340	-.00340
.899	16.920	.88110	.11190	-.02560	-.00220	-.00100	.00170	-.11480	-.00390
.901	18.690	.96830	.11640	-.01910	-.00180	-.00220	.00120	-.14020	-.00310
.899	21.000	1.05300	.12030	-.00270	-.00220	-.00250	.00170	-.14120	-.00620
.907	23.030	1.11900	.12670	.00130	-.00240	-.00250	.00120	-.17300	-.00390
.902	25.010	1.12000	.12780	.06330	.00010	.00120	.00120	-.15180	-.00110
.902	27.090	1.22000	.12780	.06380	.00440	.00170	-.00120	-.18570	.00000
GRADIENT		.09070	.00062	-.00112	-.00123	.00001	.00147	.00746	.00037

RUN NO. 108/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	CVR
.949	-1.781	-.06600	.11090	.01430	-.00470	-.00010	-.00050	.07450	.001900
.946	.342	.05840	.10830	.00120	-.00440	.00000	-.00090	.07370	.00500
.946	2.504	.18320	.10330	-.01630	-.00150	.00030	.00100	.04950	.01000
.948	4.808	.30190	.10540	-.02520	-.00270	.00080	-.00010	.08070	.01090
.949	6.510	.40150	.10430	-.03260	-.00290	-.00010	-.00100	.05120	.00500
.952	8.647	.52050	.11310	-.03920	-.00420	.00050	-.00110	.00490	.00190
.949	10.770	.62620	.11420	-.04490	.00000	-.00120	-.00100	-.03930	.00390
.946	12.810	.72740	.11970	-.04800	-.00240	.00010	.00010	-.09330	.00500
.950	14.790	.84030	.12400	-.05990	-.00210	-.00040	.00040	-.14140	.00190
.950	16.950	.99700	.13270	-.08140	-.00260	.00050	.00080	-.20820	.00610
.949	19.020	1.10700	.13490	-.08730	-.00190	.00040	.00070	-.23950	.00360
.949	21.060	1.16200	.13690	-.05940	-.00270	.00050	.00120	-.21540	.00390
.947	23.140	1.19300	.14220	-.02140	-.00030	-.00080	.00070	-.21610	.00260
.950	25.220	1.27400	.14720	.00290	-.00260	-.00060	.00070	-.23170	.00220
.952	27.250	1.33200	.14980	.01700	.00380	-.00040	.00080	-.26820	.00101
GRADIENT		.05760	-.00092	-.00634	-.00005	.00011	.00015	.00153	

DATE 20 SEP 73

TABULATED SOURCE DATA AMES 66-706 (0443)

PAGE 138

AMES 66-706 0443 510 CS 07 NS P4 107216 VIMS

(AST024) (20 JUN 73)

REFERENCE DATA

SRCP = 2000.0000 54. FT. 100P = 1078.4000 IN.
 LACF = 474.0000 IN. 100P = .0000 IN.
 BRCP = 936.6600 IN. 200P = 400.0000 IN.
 SCALE = .0190 SCALE

BETA = .000 ELL W/L = .000
 AIRLON = .000 SPOKER = 24.900
 SCOLP = -14.207 RUBBER = .000
 ELW-L = .000 ELW-R = .000

PARAMETRIC DATA

RUN NO. 112/ 0 RW/L = 2.45 GRADIENT INTERVAL = -9.00/ 9.00

HAOH	ALPHA	CN	CA	CLM	CY	CYN	CEL	CNE	CNR
1.996	-1.490	-.04180	.12660	-.01430	-.00960	.00010	-.00090	.00200	-.00180
2.000	.646	.00970	.12340	-.02800	-.00340	.00010	-.00090	-.00290	-.00290
1.997	2.796	.11790	.12210	-.03400	-.00680	-.00010	-.00090	-.00480	-.00490
2.003	4.807	.19880	.12040	-.04360	-.00980	.00000	-.00090	-.00980	-.00980
2.003	6.892	.28790	.11760	-.05030	-.00740	.00010	-.00090	-.00670	-.00640
2.005	8.917	.34160	.11750	-.05990	-.00790	.00010	-.00090	-.00250	-.00180
2.005	11.030	.42000	.11900	-.06190	-.00770	.00010	-.00090	-.11650	-.00630
2.005	13.010	.49450	.11970	-.06330	-.00750	.00000	-.00090	-.13700	-.00660
2.004	15.070	.57370	.11740	-.07000	-.00700	.00000	-.00090	-.13700	-.00780
2.004	17.230	.65910	.11560	-.07500	-.00540	-.00000	-.00090	-.16200	-.00760
2.002	19.180	.74220	.11190	-.07800	-.00430	-.00000	-.00090	-.20610	-.00910
2.001	21.260	.82870	.10590	-.07990	-.00300	-.00000	-.00090	-.23050	-.01070
2.002	23.350	.91620	.10920	-.08180	-.00150	-.00000	-.00090	-.25560	-.01170
2.002	25.430	1.01000	.10660	-.08490	-.00000	-.00000	-.00090	-.27560	-.01200
2.002	27.500	1.10400	.10480	-.08820	-.00000	-.00000	-.00090	-.29420	-.01200
1.999	27.500	1.10400	.10480	-.08820	-.00000	-.00000	-.00090	-.31057	-.01155
	GRADIENT	.03721	-.00096	-.00455	.00025	.00002	-.00000	-.00000	-.00000

DATE 28 SEP 73

TABULATED SOURCE DATA ANES 66-706 (0443)

(ABTRES) (29 JUN 73)

ANES 66-706 0443 810 CS DT NS FA WSTE16 VARS 114

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 SPOBRK = 24.900
BOOPLP = -14.200 RUDDER = .000
ELW-L = .000 ELW-R = .000

REFERENCE DATA

SREF = 8480.0000 56-FT. 1000P = 1079.4000 IN.
LREF = 474.0000 IN. 1000P = .0000 IN.
BREF = 936.0000 IN. 2000P = 400.0000 IN.
SCALE = .0150 SCALE

RUN NO. 118/ 0 RUN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	GCE	GCR
.801	-2.135	-1.0280	.06480	.02530	-.00320	-.00090	-.00200	.07450	-.00070
.801	-.009	-.00500	.06870	.02470	-.00360	-.00060	-.00240	.07370	-.00070
.802	2.003	.06250	.06580	.02400	-.00310	-.00070	-.00260	.07150	.00000
.802	4.062	.19120	.06040	.02060	-.00270	-.00160	-.00270	.06570	.00000
.800	6.169	.30420	.05180	.01900	-.00210	-.00070	-.00270	.05650	.00150
.801	8.194	.47910	.04360	.01700	-.00140	-.00090	-.00260	.04450	.00220
.800	10.260	.52030	.04550	.01160	-.00050	-.00060	-.00100	.02170	.00300
.800	12.250	.61730	.05790	.00910	-.00110	-.00090	-.00280	-.00220	.00220
.800	14.340	.72450	.05660	.00350	.00250	-.00100	-.00180	-.03120	.00070
.802	16.390	.82430	.05970	-.00140	.00230	-.00190	-.00150	-.07120	.00000
.800	18.440	.94950	.05790	-.00940	.00310	-.00040	-.00100	-.06290	.00450
.801	20.490	1.06670	.05720	-.00940	.00310	-.00070	-.00100	-.09410	.00150
.802	22.530	1.13600	.05570	.01050	.00310	-.00070	-.00100	-.09120	.00150
.802	24.540	1.13700	.06330	.00930	.00400	-.00070	-.00100	-.07920	.00220
.801	26.540	1.05400	.06290	.11130	.00930	-.00270	-.00310	-.00310	.00314
GRADIENT		.04746	-.00065	-.00072	.00011	.00005	-.00011	-.00139	

RUN NO. 117/ 0 RUN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	GCE	GCR
.901	-1.851	-.06180	.09160	.01990	-.00430	-.00070	-.00160	.07450	-.00110
.901	.273	.03980	.09240	.01080	-.00490	-.00050	-.00110	.08050	-.00110
.902	2.300	.13540	.09140	.01370	-.00330	-.00130	-.00260	.10890	.00000
.903	4.404	.24950	.09170	.00980	-.00270	-.00120	-.00220	.11490	.00170
.904	6.540	.35670	.09340	.00360	-.00260	-.00120	-.00160	.08510	.00170
.900	8.556	.44340	.09450	.00180	-.00110	-.00170	-.00240	.06130	.00000
.903	10.590	.55450	.09300	-.00190	-.00050	-.00290	-.00150	.01370	.00000
.899	12.670	.65690	.10070	-.01720	-.00050	-.00290	-.00150	-.03750	.00060
.900	14.760	.77110	.10590	-.02510	.00020	-.00190	.00230	-.10500	.00260
.902	16.860	.89580	.11390	-.02860	.00160	-.00320	.00260	-.12930	.00260
.901	18.900	.99520	.11940	-.02790	.00160	-.00320	.00260	-.15340	-.00170
.902	20.990	1.06600	.12030	-.00640	.01410	-.00390	.00000	-.16010	-.00170
.903	22.980	1.11500	.12640	.01860	.00220	-.00510	.00000	-.17540	.00450
.903	25.020	1.13400	.12960	.05960	.00220	.00000	.00070	-.15620	.00620
.901	27.070	1.21700	.13150	.06400	.00690	.00040	-.00230	-.19470	.00000
GRADIENT		.05270	.00011	-.00132	.00031	-.00011	-.00016	.00716	.00045

AMES 66-706 0443 810 C5 D7 H5 F4 W8718 V549 X14

(AST025) (19 JUN 73)

REFERENCE DATA

SRZF = 2990.0000 34. FT. XMRP = 1076.4800 IN.
 LRZF = 474.8000 IN. YMRP = .0000 IN.
 BRZF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRRON = .000 SPCBRN = 24.900
 BOOFLP = -14.200 RUDDER = .000
 ELWHL = .000 ELWHLR = .000

RUN NO. 116/ 0 RNVL = 2.32 GRADIENT INTERVAL = -9.00/ 9.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CEL	OME	OMR
1.199	-1.704	-.05610	.14130	.01680	-.00510	-.00030	-.00130	.07540	-.00090
1.201	.291	.08790	.14330	-.00460	-.00490	-.00070	-.00060	.09310	-.00090
1.203	2.343	.18110	.14430	-.02760	-.00490	-.00070	-.00010	.03200	-.00190
1.201	4.348	.29950	.14330	-.04260	-.00530	-.00070	.00050	.01000	-.00140
1.200	6.649	.40640	.14400	-.05400	-.00530	-.00050	.00170	-.01270	.00000
1.201	8.895	.50680	.14360	-.05990	-.00460	-.00060	-.00060	-.04910	-.00140
1.201	10.700	.61260	.14550	-.06990	-.00510	-.00030	.00020	-.09340	.00000
1.201	12.840	.74260	.14830	-.08440	-.01010	.00150	.00220	-.13500	.00000
1.200	15.010	.86760	.15030	-.09690	-.01000	.00060	.00360	-.18110	.00190
1.199	17.040	.97930	.15240	-.10710	-.00450	-.00080	.00100	-.23400	.00260
1.200	19.140	1.06400	.15290	-.11040	-.00410	-.00080	.00020	-.27600	.00430
1.198	21.220	1.16270	.14550	-.10140	-.00960	.00210	.00120	-.25780	.00710
1.199	23.230	1.19270	.13770	-.06620	-.00420	.00030	-.00120	-.27440	.00940
1.198	25.260	1.21270	.13430	-.02150	.00060	-.00080	.00000	-.25990	.01110
1.199	27.300	1.29270	.12500	-.01690	-.00530	.00060	-.00030	-.29110	.00050
1.199		.05730	.00733	-.00965	-.00003	-.00003	.00026	-.01043	-.00012

GRADIENT

BETA =	.000	ELEVON =	.000
ALLION =	.000	SPARK =	24.900
BOOFLP =	-14.800	RUBBER =	.000
ELVN-R =	.000	ELEV-R =	.000

Variable	Mean	SD	Min	Max	Gradient Interval	Min	Max
Age	34.5	10.5	20	55	-5.00	5.00	
Gender	1.5	0.5	1	2	-5.00	5.00	
Marital Status	1.5	0.5	1	2	-5.00	5.00	
Education	12.5	1.5	10	15	-5.00	5.00	
Income	3.5	1.5	1	5	-5.00	5.00	
Occupation	1.5	0.5	1	2	-5.00	5.00	
Religion	1.5	0.5	1	2	-5.00	5.00	
Political Affiliation	1.5	0.5	1	2	-5.00	5.00	
Health Status	1.5	0.5	1	2	-5.00	5.00	
Stress Level	3.5	1.5	1	5	-5.00	5.00	
Life Satisfaction	3.5	1.5	1	5	-5.00	5.00	
Resilience	3.5	1.5	1	5	-5.00	5.00	
Emotional Stability	3.5	1.5	1	5	-5.00	5.00	
Personality Traits	3.5	1.5	1	5	-5.00	5.00	
Interpersonal Skills	3.5	1.5	1	5	-5.00	5.00	
Communication Skills	3.5	1.5	1	5	-5.00	5.00	
Problem Solving Skills	3.5	1.5	1	5	-5.00	5.00	
Decision Making Skills	3.5	1.5	1	5	-5.00	5.00	
Time Management Skills	3.5	1.5	1	5	-5.00	5.00	
Organization Skills	3.5	1.5	1	5	-5.00	5.00	
Planning Skills	3.5	1.5	1	5	-5.00	5.00	
Goal Setting Skills	3.5	1.5	1	5	-5.00	5.00	
Self-Motivation	3.5	1.5	1	5	-5.00	5.00	
Resilience	3.5	1.5	1	5	-5.00	5.00	
Emotional Stability	3.5	1.5	1	5	-5.00	5.00	
Personality Traits	3.5	1.5	1	5	-5.00	5.00	
Interpersonal Skills	3.5	1.5	1	5	-5.00	5.00	
Communication Skills	3.5	1.5	1	5	-5.00	5.00	
Problem Solving Skills	3.5	1.5	1	5	-5.00	5.00	
Decision Making Skills	3.5	1.5	1	5	-5.00	5.00	
Time Management Skills	3.5	1.5	1	5	-5.00	5.00	
Organization Skills	3.5	1.5	1	5	-5.00	5.00	
Planning Skills	3.5	1.5	1	5	-5.00	5.00	
Goal Setting Skills	3.5	1.5	1	5	-5.00	5.00	
Self-Motivation	3.5	1.5	1	5	-5.00	5.00	

MACH	ALPHA	ON	CA	CLM	CY	CYN	CSL	ONE	ONR
.599	-2.083	-.09730	.06640	.02290	-.00530	-.00110	-.00240	.07400	-.00360
.601	-.036	-.00010	.06870	.02170	-.00590	-.00100	-.00290	.07370	-.00300
.603	2.045	.09320	.06650	.02060	-.00480	-.00110	-.00270	.07390	-.00300
.605	4.037	.19430	.06790	.01790	-.00330	-.00120	-.00270	.06800	-.00300
.600	6.192	.30460	.05330	.01590	-.00200	-.00120	-.00250	.09740	-.00300
.600	8.164	.41060	.04360	.01490	-.00210	-.00110	-.00260	.04840	-.01230
.599	10.240	.52090	.03780	.00780	-.00290	-.00100	-.00140	.02990	-.01230
.601	12.260	.61660	.05160	.00790	-.00200	-.00090	.00000	-.00000	-.01230
.601	14.340	.72600	.05660	.00010	-.00090	-.00140	.00220	-.03100	-.01300
.601	16.440	.83270	.06040	-.00440	.00080	-.00120	.00320	-.06120	-.01340
.599	18.410	.93260	.05930	-.01160	.00090	-.00110	-.00120	-.01740	-.00360
.598	20.500	1.06760	.05770	-.01940	.00120	-.00100	.00190	-.03000	-.00360
.599	22.560	1.14400	.05620	.00620	-.00050	-.00120	.00000	-.09460	-.00360
.596	24.520	1.14200	.05360	.00310	-.00020	-.00080	-.00240	-.01740	-.00230
.600	26.520	1.09500	.06270	.00550	.00420	-.00230	-.00340	-.06460	-.00230
					.00035	-.00002	-.00006	-.00131	.00012

RUN NO. 122 / 0 SN/L = 2.34 GRADIENT INTERVAL = -5.00 / 5.00

Wavelength	Alpha	CN	CA	CLM	CY	CYN	CBL	CHE	CNR
7005	-2.002	-0.0930	.07000	.02550	-.00040	-.00140	-.00260	.07630	-.00270
7011	.066	.00190	.07050	.02460	-.00020	-.00140	-.00260	.07970	-.00200
702	2.210	.10500	.06640	.02140	-.00010	-.00130	-.00280	.07720	-.00230
703	4.210	.06290	.02140	.01750	.00010	-.00140	-.00280	.07320	-.00230
7031	6.336	.32710	.03550	.01470	.00060	-.00140	-.00270	.06270	-.00270
7032	8.341	.43140	.05310	.00930	.00060	-.00110	-.00200	.04490	-.00200
701	10.420	.52470	.06100	.00760	.00110	-.00090	-.0010	.01460	-.00130
7011	12.390	.61790	.06290	.00660	.00020	-.00120	-.0010	-.00390	-.00200
700	14.350	.71760	.06910	.00600	.00190	-.00140	-.00140	-.04160	-.00270
700	16.570	.83260	.07100	.00510	.00400	-.00130	-.00280	-.06070	-.00340
700	18.590	.94210	.07120	-.00360	.00360	-.00240	.00000	-.08130	-.00270
700	20.640	1.03300	.07000	.00160	.00470	-.00300	.00230	-.09170	-.00200
700	22.700	1.09600	.06730	.02990	.00110	-.00340	.00430	-.09110	-.00170
701	24.660	1.03300	.06910	-.00430	-.00430	-.00060	.00420	-.07420	.00330
1400	26.640	1.02800	.04120	.01420	.00670	-.00110	-.00160	-.07960	-.00130
GRADIENT			-.00112	-.00131	.00007	.00001	-.00004	-.00065	.00010

AVES 66-706 QZ43 B10 C3 D7 M3 P4 W87E18 V88S X15

(ABT026) (29 JUN 73)

REFERENCE DATA

SR07 = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
 LR07 = 474.8000 IN. YMRP = .0000 IN.
 BR07 = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPOBRK = 24.800
 BOOPLP = -14.800 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 125/ 0 RN/L = 2.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.801	-1.976	-1.0810	.07190	.03070	-.00120	-.00170	-.00310	.06860	-.00300
.801	.250	.00790	.07320	.02810	-.00150	-.00150	-.00330	.06650	.00300
.802	2.248	.11120	.07050	.02300	-.00120	-.00140	-.00340	.06720	-.00240
.799	4.382	.23010	.06620	.01890	-.00080	-.00130	-.00360	.06250	-.00180
.799	6.439	.34000	.06370	.01600	-.00180	-.00150	-.00160	.06290	-.00180
.801	8.476	.41660	.07160	.01240	-.00160	-.00140	-.00090	.03470	-.00160
.800	10.590	.52010	.07520	.00860	-.00150	-.00130	.00120	.01750	-.00160
.799	12.580	.61150	.07830	.00690	-.00060	-.00130	.00010	-.00790	-.00240
.799	14.720	.71660	.08590	.00310	.00280	-.00300	.00010	-.04600	-.00300
.801	16.790	.83090	.08740	-.00370	.00220	-.00360	.00170	-.07200	-.00240
.801	16.790	.92230	.08900	-.00170	.00380	-.00330	.00150	-.06660	-.00300
.800	20.670	1.01000	.09160	.01170	.00210	-.00300	.00180	-.09610	-.00300
.799	22.610	1.02400	.09230	.03670	.00720	-.00310	-.00210	-.09130	-.00300
.801	24.600	1.01800	.10360	.09810	.00320	-.00210	-.00040	-.06440	-.00240
.800	26.800	1.06400	.10560	.10640	.00600	-.00170	-.00170	-.10930	-.00360
GRADIENT		.05266	-.00793	-.00211	.00007	.00006	-.00008	-.00046	.00020

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.852	-1.849	-.10040	.07700	.03170	-.00200	-.00160	-.00350	.09490	-.00350
.852	.242	.01540	.07910	.02460	-.00270	-.00170	-.00360	.09520	-.00290
.852	2.342	.12000	.07900	.01950	-.00220	-.00160	-.00350	.09240	-.00240
.852	4.436	.23260	.07910	.01840	-.00310	-.00120	-.00240	.09080	-.00180
.848	6.490	.32790	.07810	.01670	-.00330	-.00110	-.00220	.07760	-.00120
.849	8.549	.42070	.08330	.01590	-.00250	-.00160	-.00210	.05520	-.00160
.851	10.540	.51320	.08700	.01150	-.00360	-.00110	-.00110	.03580	-.00160
.851	12.640	.61450	.09290	.00320	-.00350	-.00200	.00150	-.01190	-.00060
.850	14.720	.72360	.09550	-.00310	.00070	-.00330	.00040	-.00310	-.00160
.848	16.860	.84650	.09990	-.00870	.00100	-.00370	.00170	-.06210	-.00300
.851	18.790	.94290	.10460	-.00290	.00260	-.00400	-.00020	-.11890	-.00330
.851	20.680	1.02800	.10690	.01120	.00200	-.00360	-.00020	-.11210	-.00410
.849	22.940	1.03700	.10970	.03340	.00600	-.00400	-.00060	-.11360	-.00290
.851	24.900	1.06000	.11630	.08500	.00290	-.00200	-.00020	-.14530	-.00330
.850	27.000	1.14000	.11770	.09050	.00420	-.00110	-.00190	-.00027	-.00027
GRADIENT		.05296	.00030	-.00220	-.00003	.00009	.00017	-.00072	.00027

RUN NO. 124/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

DATE 20 SEP 73

TABULATED SOURCE DATA ARES 66-706 (0443)

PAGE 140

(ABT086) (29 JUN 73)

ARES 66-706 0443 B10 CS 07 MS P4 WPTC18 VMS 115

REFERENCE DATA

SARP = 2990.0000 36-PT. YARP = 1079.4000 IN.
 LARP = 474.6000 IN. YARP = .0000 IN.
 SARP = 936.6000 IN. ZARP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLCON = .000 SPOOR = 84.900
 BODYLP = -16.800 RUDDER = .000
 ELVNL = .000 ELVNR = .000

RUN NO. 120/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CVE	CVR
.900	-1.808	-.07670	.09640	.01700	-.00580	-.00110	-.00180	.07390	-.00170
.900	.251	.03830	.09070	.01010	-.00540	-.00100	-.00150	.07830	-.00230
.900	2.348	.13330	.09180	.01160	-.00510	-.00100	-.00130	.11130	-.00230
.902	4.423	.24590	.09210	.00910	-.00340	-.00120	-.00140	.11310	-.00180
.906	6.325	.33650	.09140	-.00750	-.00440	-.00130	-.00140	.06830	-.00170
.902	6.374	.46250	.09720	-.01150	-.00280	-.00150	-.00240	.05430	-.00110
.904	10.610	.55640	.09670	-.01150	-.00420	-.00130	-.00240	.01450	-.00110
.900	12.600	.66150	.10180	-.02250	-.00270	-.00280	.00060	-.05120	-.00170
.906	14.760	.77620	.10800	-.02890	-.00190	-.00220	.00030	-.09070	-.00170
.902	16.850	.89790	.11100	-.03390	-.00100	-.00130	.00170	-.12630	.00060
.900	18.890	.97990	.11650	-.04220	.00010	-.00320	.00270	-.14500	-.00170
.899	23.930	1.05900	.11960	-.04910	.00240	-.00390	.00320	-.16070	-.00170
.897	22.930	1.06600	.12190	.03750	-.00670	-.00060	.00430	-.12970	.00060
.899	24.990	1.12070	.12690	.06130	.00070	.00010	-.00130	-.13160	.00170
.899	27.040	1.20600	.12970	.06340	.00360	.00100	-.00180	-.16130	.00060
GRADIENT		.05125	.00004	-.00107	.00027	-.00001	.00004	.00725	.00000

RUN NO. 125/ 0 RN/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CL 1	CY	CYN	CBL	CVE	CVR
.949	-1.767	-.06720	.10690	.01300	-.00280	-.00070	-.00110	.07460	-.00060
.953	.272	.05300	.11640	-.00010	-.00180	-.00090	-.00110	.07430	-.00160
.943	2.497	.16760	.09490	-.00700	-.00040	-.00070	-.00090	.09630	.00060
.943	4.522	.30520	.10740	-.02730	.00040	-.00050	-.00100	.07160	.00390
.931	6.625	.42070	.10790	-.03900	.00160	-.00090	-.00150	.04270	.00030
.931	6.633	.52360	.11180	-.04150	.00020	-.00030	-.00050	.00160	.00110
.930	10.800	.62510	.11720	-.04400	.00440	-.00060	-.00070	-.05260	.00170
.932	12.750	.73970	.12570	-.04600	.00330	-.00140	.00000	-.09630	.00110
.934	13.820	.81510	.13580	-.05420	.01290	-.00090	-.00020	-.12650	.00270
.949	14.930	.86760	.12670	-.06750	.00460	-.00080	.00030	-.15630	.00440
.949	16.940	.99250	.13240	-.08390	.00290	.00010	.00090	-.21430	.00170
.952	19.000	1.09300	.13270	-.08390	.00610	-.00190	.00070	-.25530	.00330
.949	21.070	1.16400	.14080	-.08390	.00500	-.00070	.00160	-.22070	-.01320
.952	23.290	1.24500	.14730	-.08440	.00120	-.00060	.00240	-.23720	-.01260
.951	25.120	1.22700	.14310	.07970	.01430	-.00260	-.00060	-.23290	-.00050
.952	27.200	1.36000	.15560	.00640	.01340	-.00200	-.00040	-.26270	-.00660
GRADIENT		.05835	-.00080	-.00604	.00052	.00004	.00002	.00066	.00075

(ASTOR) (29 JUN 73)

TABULATED SOURCE DATA AVES 66-706 (OAS)

AVES 66-706 OAS B10 C5 D7 M3 F4 M3E18 V3R6 M19

DATE 29 SEP 73

REFERENCE DATA

SREF = 2000.0000 96.00 FT. XREF = 1076.4000 IN.
 LREF = -174.0000 IN. YREF = .0000 IN.
 BREF = 936.0000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALLCON = .000 SPOBRK = 24.900
 BODYFLP = -14.200 RUDDER = .000
 ELVHL = .000 ELVHL-R = .000

RUN NO. 119/ D RVAL = 2.51 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CL	QCE	QCE
1.196	-1.815	-.06390	.14200	.01670	-.00460	-.004173	-.00160	.07630	.00000
1.203	.310	.05910	.14420	-.00480	-.00430	-.00090	-.00050	.09690	.00050
1.202	2.474	.18440	.14310	-.00890	-.00360	-.00090	-.00020	.03360	-.00100
1.202	4.539	.30070	.14490	-.04660	-.00360	-.00090	.00030	.01090	-.00190
1.201	6.615	.41170	.14470	-.03720	-.00350	-.00050	.00030	-.01610	-.00100
1.201	8.664	.50990	.14450	-.06210	-.00360	-.00050	-.00010	-.05690	-.00100
1.198	10.610	.62990	.14610	-.07590	-.00360	-.00060	-.00120	-.09940	-.00100
1.200	12.650	.74540	.14920	-.08690	-.00360	.00060	.00140	-.14150	-.00100
1.202	14.950	.87030	.15070	-.10670	-.00350	.00060	.00310	-.16720	.00070
1.197	17.020	.97970	.15240	-.12670	-.00350	.00060	.00110	-.23890	.00070
1.199	19.110	1.06900	.15340	-.11290	-.00180	-.00060	-.00030	-.26340	.00190
1.199	21.160	1.16500	.14570	-.10510	-.00370	.00060	.00270	-.26760	.00070
1.200	23.210	1.19200	.13780	-.06810	-.00360	.00060	-.00160	-.27770	.00620
1.200	25.300	1.21900	.13550	-.02510	-.00050	.00060	-.00110	-.26480	.00440
1.200	27.320	1.30100	.12710	-.01950	-.00370	.00060	-.00090	-.29320	.00190
1.190		.05744	.00045	-.01110	.00015	-.00003	-.00026	-.01062	-.00026

REFERENCE DATA

8007 = 2000.0000 98.17. 1000P = 1.078.4800 IN.
 1007 = 474.9000 IN. 1000P = .0000 IN.
 8007 = 936.6000 IN. 2000P = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 SPDRK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELWN-L = .000 ELWN-R = .000

RUN NO. 126/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	CHR
.596	-2.184	-1.8180	.06930	.04910	-.00900	.00010	.00020	.00000	-.01210
.599	-.080	-.04860	.06790	.05360	-.00950	.00070	.00010	.00000	-.01200
.602	2.024	.02880	.06930	.05330	-.00930	.00070	-.00040	.00000	-.01190
.599	4.069	.13150	.06450	.05180	-.00870	.00030	-.00040	.00000	-.01050
.599	6.123	.25180	.04180	.04600	-.00690	-.00010	-.00070	.00000	-.00970
.600	8.100	.35210	.04070	.04670	-.00680	.00010	-.00040	.00000	-.01190
.601	10.260	.48930	.04020	.04220	-.00590	.00020	-.00090	.00000	-.01120
.599	12.260	.66950	.07780	.03620	-.00500	.00010	-.00150	.00000	-.01050
.596	14.430	.72220	.07820	.02750	-.00430	.00010	-.00210	.00000	-.00900
.601	16.450	.86450	.07470	.01330	-.00220	-.00020	-.00240	.00000	-.00800
.597	18.560	1.00500	.07120	.00720	-.00220	-.00020	-.00220	.00000	-.00770
.601	20.610	1.12500	.06590	.00940	-.00100	-.00010	-.00130	.00000	-.00740
.601	22.520	1.12800	.06750	.04880	.00240	-.00080	-.00350	.00000	-.01190
.600	24.480	1.02700	.06780	.09780	.00530	-.00030	-.00030	.00000	-.01150
.601	26.510	.96400	.08320	.12530	-.00010	.00040	-.00190	.00000	-.01330
GRADIENT	.04671	-.00076	.00038	.00004	.00004	-.00011	.00023	.00000	.00023

RUN NO. 127/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	OE	CHR
1.199	-1.819	-1.1540	.15650	.09950	-.00680	.00020	.00020	.00000	-.00760
1.202	.271	-.02540	.15790	.07270	-.00570	.00000	.00000	.00000	-.00570
1.202	2.487	.11560	.15600	.04170	-.00550	.00030	.00010	.00000	-.00520
1.200	4.448	.23760	.15780	.02000	-.00410	-.00030	.00020	.00000	-.00240
1.202	6.853	.36950	.15710	-.00430	-.00300	-.00060	-.00020	.00000	-.00470
1.201	8.772	.49450	.15750	-.02280	-.00270	-.00050	.00010	.00000	-.00570
1.202	10.820	.61570	.15660	-.04300	-.00190	-.00060	-.00040	.00000	-.00660
1.202	12.890	.74430	.15680	-.06520	-.00170	-.00070	-.00100	.00000	-.00610
1.201	15.030	.86630	.15830	-.07570	-.00060	-.00100	-.00160	.00000	-.00760
1.199	17.060	.97570	.15850	-.08960	-.00050	-.00110	-.00200	.00000	-.00660
1.199	19.110	1.08100	.15760	-.09630	-.00110	-.00110	-.00180	.00000	-.00470
1.199	21.240	1.19100	.15100	-.10580	-.00020	-.00020	-.00230	.00000	-.00090
1.196	23.300	1.20200	.14720	-.04880	.00140	-.00150	-.00220	.00000	-.00230
1.196	25.290	1.22600	.14410	-.01110	-.00090	.00020	-.00210	.00000	.00000
1.196	27.410	1.30100	.12590	-.00660	.00200	-.00030	-.00250	.00000	.00000
GRADIENT	.06281	-.00079	-.01265	.00004	.00004	-.00009	.00000	.00000	.00076

DATE 28 SEP 73 TABULATED SOURCE DATA ANES 66-706 (0443)

(ABT027) (29 JUN 75)

ANES 66-706 0443 810 C5 D7 H5 F4 W06E18 V3R5

REFERENCE DATA

SREF = 2000.0000 50.FT. 100P = 1078.4000 IN.
 LREF = 474.0000 IN. 100P = .0000 IN.
 BREF = 936.6000 IN. 200P = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SPORNIK = 54.900
 BOOPLP = -14.200 RUDDER = .000
 ELVN-L = .000 ELVN-R = .000

RUN NO. 126/ 0 RWL = 2.43 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	CLM	CY	CYN	CR	OE	OR
1.995	-1.597	-0.0440	.13920	.00090	-.00620	-.00080	-.00040	.00000	-.00280
2.004	.553	.01440	.13930	.01130	-.00710	-.00070	-.00050	.00000	-.00370
2.007	2.780	.00020	.13400	-.00080	-.00680	-.00080	-.00060	.00000	-.00370
2.007	4.916	.17770	.13130	-.01000	-.00630	-.00050	-.00070	.00000	-.00420
2.007	6.879	.29050	.12920	-.01670	-.00610	-.00050	-.00060	.00000	-.00560
2.008	8.933	.32720	.12770	-.02520	-.00540	-.00050	-.00090	.00000	-.00600
2.009	11.010	.40350	.12620	-.03100	-.00550	-.00050	-.00100	.00000	-.00560
2.005	13.050	.48100	.12460	-.03630	-.00570	-.00060	-.00110	.00000	-.00410
2.000	15.110	.55950	.12280	-.04120	-.00530	-.00050	-.00110	.00000	-.00320
2.000	17.040	.63360	.12280	-.04340	-.00570	-.00050	-.00110	.00000	-.00320
1.999	19.240	.72350	.11860	-.04650	-.00480	-.00090	-.00110	.00000	-.00350
1.999	21.270	.81070	.11570	-.05090	-.00370	-.00110	-.00130	.00000	-.00180
2.000	23.320	.89710	.11300	-.05460	-.00350	-.00140	-.00130	.00000	-.02150
1.999	25.400	.98760	.10760	-.05910	-.00380	-.00140	-.00130	.00000	-.02420
1.999	27.590	1.08400	.10290	-.06310	-.00440	-.00150	-.00130	.00000	-.00019
1.997	GRADIENT	.03721	-.00111	-.00481	.00001	.00012	-.00005	.00000	

AXES 66-706 0443 B10 C5 D7 H0 F4 W8T616 V585 313

(ABT0000) (29 JUN 73)

REFERENCE DATA

SREF = 2000.0000 1/8 FT. 1000P = 1076.4000 IN.
 LREF = 474.0000 IN. 1000P = .0000 IN.
 BREF = 936.0000 IN. 2000P = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 ALLRON = .000 SPDRK = 24.910
 BODFLP = -14.270 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

RUN NO. 133/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	QLM	CY	CYN	CBL	CHE	CHR
.672	-2.031	.06070	.06950	-.07430	-.00790	.00100	.00100	.00000	.00150
.672	.039	.16030	.09010	-.07390	-.00660	.00100	.00130	.00000	.00230
.673	2.097	.29230	.06850	-.07650	-.00710	.00120	.00150	.00000	.00230
.680	4.163	.30770	.06090	-.06000	-.00790	.00120	.00140	.00000	.00230
.599	6.174	.49110	.07270	-.06160	-.00560	.00080	.00090	.00000	.00230
.601	8.275	.67310	.06240	-.06270	-.00550	.00090	.00090	.00000	.00230
.601	10.310	.71510	.06430	-.06600	-.01330	.00360	.00370	.00000	.00310
.600	12.310	.79590	.07290	-.06320	-.00360	.00080	.00170	.00000	.00230
.598	14.360	.89540	.07830	-.06270	-.00270	.00010	.00360	.00000	.00310
.601	16.490	1.01600	.08360	-.10240	-.00090	.00010	.00360	.00000	.00460
.601	18.490	1.14000	.08250	-.10660	-.00170	.00010	.00360	.00000	.00690
.600	20.990	1.22400	.08120	-.09290	-.00210	.00020	.00160	.00000	.00840
.601	22.990	1.25500	.07800	-.05910	-.00180	.00010	.00050	.00000	.00840
.599	24.930	1.14100	.08070	-.08470	-.00360	.00070	.00100	.00000	.00690
.601	26.940	1.12800	.08490	.05110	-.00130	.00040	.00320	.00000	.00690
GRADIENT		.04939	-.01134	-.00006	.00006	.00004	.00007	.00000	.00012

RUN NO. 132/ 0 RN/L = 2.55 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CN	CA	QLM	CY	CYN	CBL	CHE	CHR
.702	.094	.18430	.09200	-.07780	-.01090	.00150	.00190	.00000	.00150
.700	2.136	.28720	.09020	-.06150	-.01030	.00160	.00180	.00000	.00150
.701	4.252	.39690	.08310	-.06420	-.01020	.00160	.00150	.00000	.00200
.699	6.246	.51430	.07540	-.06950	-.00840	.00170	.00090	.00000	.00200
.699	8.339	.62400	.07270	-.09170	-.01030	.00260	.00510	.00000	.00270
.701	10.410	.68990	.08370	-.08340	-.00350	.00090	.00180	.00000	.00270
.701	12.420	.78210	.08630	-.08450	-.00260	.00050	.00050	.00000	.00270
.699	14.470	.86950	.09440	-.09780	-.00210	.00040	.00010	.00000	.00200
.701	16.560	1.01600	.09600	-.10370	-.00140	.00040	.00030	.00000	.00150
.700	18.530	1.09200	.09530	-.09420	-.00300	-.00100	.00570	.00000	.00150
.702	20.660	1.14500	.09530	-.07200	-.00370	.00060	.00210	.00000	.00670
.701	22.650	1.15500	.09150	-.02140	-.01160	.00260	.00470	.00000	.01200
.700	24.620	1.09300	.09870	.03550	-.00260	.00110	.00040	.00000	.00670
.701	26.720	1.11500	.09970	.03120	.00020	.00140	-.00020	.00000	.00740
GRADIENT		.05162	-.00215	-.00154	.00017	.00007	-.00014	.00000	.00000

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TABULATED SOURCE DATA AMES 66-706 (0A43)

(AST028) (29 JUN 73)

AMES 66-706 0A43 B10 C5 07 M3 P4 W87E18 V8K5 X15

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 1076.4600 IN.
 LREF = 474.4 IN. YREF = .0000 IN.
 SREF = 950.6000 IN. ZREF = 400.0000 IN.
 SCALE = .0150 SCALE

BETA = .000 ELEVON = 10.000
 AIRLON = .000 SPOBRK = 24.900
 BODYLP = -14.200 RUDDER = .000
 ELVN-L = 10.000 ELVN-R = 10.000

RUN NO. 131/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CLB	CLE	CHR
.801	-1.846	.07010	.09500	-.07320	-.01300	.00210	.00190	.00000	.00160
.805	.845	.18050	.09650	-.06850	-.01310	.00250	.00170	.00000	.00180
.800	2.682	.30870	.09550	-.06900	-.01290	.00240	.00170	.00000	.00180
.799	4.345	.42370	.09140	-.09000	-.01080	.00190	.00190	.00000	.00160
.799	6.443	.58680	.08270	-.09790	-.01140	.00200	.00190	.00000	.00240
.800	8.450	.66800	.05820	-.06800	-.00850	.00180	.00190	.00000	.00240
.800	10.500	.69140	.09970	-.09300	-.00870	.00110	.00060	.00000	.00300
.800	12.590	.77950	.10670	-.09710	-.00330	.00060	.00060	.00000	.00360
.800	14.680	.83250	.11270	-.10660	-.00380	.00000	.00000	.00000	.00300
.801	16.760	.89900	.11530	-.10490	-.00190	.00000	.00000	.00000	.00460
.196	18.710	1.05600	.11530	-.10600	-.00350	.00140	.00190	.00000	.00600
.800	20.820	1.12000	.12010	-.08390	-.00210	.00100	.00190	.00000	.00600
.800	22.760	1.09400	.11630	.03240	.00110	.00000	.00000	.00000	.00400
.800	24.760	1.10400	.12040	.03490	.00460	-.00040	-.00090	.00000	.00360
.799	26.840	1.16700	.12370	-.00331	.00036	-.00002	-.00006	.00000	.00000
	GRADIENT	.05566	-.02479	-.00331	.00036	-.00002	-.00006	.00000	.00000

RUN NO. 130/ 0 RV/L = 2.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CLB	CLE	CHR
.894	-1.811	.04360	.10710	-.06630	-.01730	.00330	-.00090	.00000	.00230
.896	.277	.17330	.11290	-.06250	-.01590	.00300	-.00040	.00000	.00290
.897	2.343	.30290	.11330	-.09750	-.01440	.00260	-.00070	.00000	.00290
.897	4.476	.42210	.10990	-.10720	-.01320	.00240	-.00050	.00000	.00400
.896	6.531	.52400	.11550	-.11020	-.01390	.00220	-.00060	.00000	.00340
.896	8.615	.62160	.11910	-.11160	-.00960	.00190	-.00040	.00000	.00460
.894	10.680	.71910	.12580	-.11520	-.00720	.00100	.00090	.00000	.00580
.892	12.690	.81760	.12840	-.12070	-.00670	.00000	.00160	.00000	.00800
.896	14.820	.93950	.13320	-.13150	-.00350	-.00020	.00280	.00000	.00600
.895	16.860	1.02000	.13760	-.12070	-.00700	.00030	.00230	.00000	.00630
.895	18.960	1.09600	.14160	-.08310	-.00420	.00070	.00230	.00000	.00230
.894	20.960	1.15300	.14410	-.02450	-.00350	.00010	.00060	.00000	.00630
.894	22.950	1.14800	.14520	-.00320	-.00100	.00110	.00000	.00000	.00460
.896	25.020	1.21000	.14900	-.00320	.00100	.00110	-.00140	.00000	.00920
.895	27.060	1.28400	.14620	.00770	.00230	.00170	-.00190	.00000	.00000
	GRADIENT	.06031	-.00042	-.01657	.00066	-.00013	-.00001	.00000	.00009

(ABT028) (29 JUN 73)

AVE3 66-706 0443 B10 C5 D7 W3 F4 W37216 VSK5 X15

REFERENCE DATA

BACF = 2000.0000 90.FT. 300P = 1076.4000 IN.
 LUDF = 474.0000 IN. YARP = .0000 IN.
 BACF = 936.0000 IN. ZARP = 400.0000 IN.
 SCALE = .0150 SCALE

RUN NO. 129/ 0 RW/L = 2.50 GRADIENT INTERVAL = -6.00/ 5.00

BETA = .000 ELEVON = 10.000
 ALLCON = .000 SPOBRK = 24.900
 BODPLP = -14.800 RUDDER = .000
 ELVH-L = 10.000 ELVH-R = 10.000

PARAMETRIC DATA

WACH	ALPHA	CN	CA	CLM	CY	CYN	CR	CR	CR
1.205	-1.754	.05480	.10210	-.08430	-.00860	.00070	-.00080	.00000	.00490
1.203	.309	.19750	.16440	-.08190	-.00830	.00080	-.00030	.00000	.00430
1.198	2.421	.27830	.16310	-.10470	-.00860	.00080	-.00080	.00000	.00530
1.201	4.103	.40070	.16490	-.18480	-.00810	.00030	.00010	.00000	.00460
1.202	6.021	.51680	.16400	-.14090	-.00940	-.00010	.00030	.00000	.00480
1.201	8.723	.60030	.16490	-.18310	-.00870	.00000	.00000	.00000	.00480
1.202	10.810	.74090	.16040	-.18690	-.00830	.00020	.00040	.00000	.00560
1.202	12.600	.87110	.17540	-.17830	-.00960	.00000	.00000	.00000	.00730
1.201	14.900	.96010	.17690	-.16660	-.00830	.00040	.00000	.00000	.00920
1.198	17.080	1.09900	.17690	-.19360	-.00410	-.00010	.00060	.00000	.00730
1.204	19.150	1.19200	.17590	-.18990	-.00260	.00080	.00010	.00000	.00770
1.198	21.160	1.23600	.16280	-.15970	-.01400	.00470	.00190	.00000	.02520
1.199	23.220	1.26000	.15430	-.11860	-.01540	.00410	.00170	.00000	.04160
1.198	25.250	1.29400	.15330	-.07690	-.00670	.00010	.00060	.00000	.01600
1.202	27.300	1.36600	.14190	-.07590	-.00330	.00050	.00060	.00000	.00660
	GRADIENT	.00628	.00045	-.01037	.00011	-.00006	.00009	.00000	.00005

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TABULATED SOURCE DATA AXES 66-706 (0443)

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AXES 66-706 0443 810 C5 D7 M3 P4 W07E38 V08S X13

(AST029) (29 JUN 73)

REFERENCE DATA

SACF = 2990.0000 56.77. XMRP = 1076.4800 IN.
 LMRP = 474.8000 IN. YMRP = .0000 IN.
 BMRP = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AIRLON = .000 SPOBRK = 24.900
 BOOFLP = -14.200 RUDDER = .000
 ELVN-L = -5.000 ELVN-R = -5.000

RUN NO. 134/ 0 RN/L = 2.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.699	-2.108	.16300	.06760	.06540	-.00140	-.00100	-.00540	.00000	.00310
.700	-.139	-.09140	.06850	.06420	-.00110	-.00110	-.00350	.00000	.00310
.701	1.955	.00360	.06620	.06460	-.00220	-.00100	-.00360	.00000	.00390
.702	4.075	.10190	.06340	.06460	-.00200	-.00090	-.00360	.00000	.00390
.703	6.082	.19920	.05180	.06620	-.00210	-.00190	-.00360	.00000	.00310
.704	8.123	.30750	.04180	.06780	.00000	-.00110	-.00390	.00000	.00470
.705	10.170	.41620	.03680	.06350	.00090	-.00040	-.00210	.00000	.00310
.706	12.220	.52350	.04750	.05720	-.00110	-.00010	-.00210	.00000	.00390
.707	14.310	.63040	.04640	.05700	.00000	-.00110	-.00210	.00000	.00390
.708	16.320	.73990	.05220	.05770	.00120	-.00080	-.00340	.00000	.00350
.709	18.360	.87030	.04860	.05340	.00190	-.00060	-.00320	.00000	.00760
.710	20.470	.96690	.04440	.05410	.00330	.00000	-.00240	.00000	.00760
.711	22.450	1.06200	.04310	.04580	.00000	.00000	-.00100	.00000	.00760
.712	24.520	1.06100	.04170	.06440	-.00060	.00040	-.00240	.00000	.00940
.713	26.460	.99940	.04970	.13460	-.00210	-.00130	.00020	.00000	.00930
GRADIENT		.04600	-.00117	-.00009	-.00011	.00003	-.00004	.00000	.00016

RUN NO. 135/ 0 RN/L = 2.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CY	CYN	CBL	CHE	CHR
.699	-2.073	.19120	.06910	.07100	-.00160	-.00100	-.00620	.00000	.00000
.700	.007	-.06740	.07060	.06670	-.00200	-.00100	-.00610	.00000	.00000
.701	2.079	.01120	.06740	.06900	-.00130	-.00090	-.00630	.00000	.00140
.702	4.073	.10690	.06210	.06900	-.00010	-.00110	-.00630	.00000	.00070
.703	6.244	.21660	.05460	.07160	.00190	-.00130	-.00640	.00000	.00070
.704	8.236	.32710	.04810	.06480	.00120	-.00070	-.00510	.00000	.00140
.705	10.300	.42580	.05410	.06250	.00100	-.00080	-.00250	.00000	.00200
.706	12.370	.52750	.05670	.05730	-.00090	-.00100	-.00200	.00000	.00070
.707	14.350	.62530	.06260	.04780	.00130	-.00070	-.00320	.00000	.00000
.708	16.460	.74130	.06410	.04100	.00090	-.00040	-.00350	.00000	-.00070
.709	18.530	.85150	.06080	.03980	.00240	-.00180	-.00210	.00000	.00200
.710	20.540	.95200	.05630	.04560	.00120	-.00120	.00090	.00000	.00350
.711	22.570	1.02800	.05630	.06660	-.00050	-.00010	.00300	.00000	.00610
.712	24.620	.96670	.06070	.11970	-.00050	.00000	.00300	.00000	.00000
.713	26.580	.97010	.06790	.15090	.00070	.00030	-.00030	.00000	.00660
GRADIENT		.04656	-.00117	-.00028	-.00025	-.00001	-.00002	.00000	.00014

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TABULATED SOURCE DATA ANES 66-706 (0443)

(AST029) (29 JUN 73)

ANES 66-706 0443 BID C5 D7 M3 F4 W87E18 V8R3 X15

REFERENCE DATA

SACF = 2690.0000 94.00 FT. 100RP = 1076.4800 IN.
 LREF = 474.8000 IN. 100RP = .0000 IN.
 SREF = 934.8000 IN. 200RP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -5.000
 AIRLON = .000 SPDRK = 24.900
 BOPLP = -14.200 RUDDER = .000
 ELVN-L = -5.000 ELVN-R = -5.000

RUN NO. 136/ 0 RV/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CBL	CHE	CHR
.801	-1.957	-1.9020	.07350	.07620	.00020	-.00150	-.00370	.00000	-.00240
.799	.083	-.08320	.07450	.07350	.00080	-.00150	-.00600	.00000	-.00240
.799	2.131	.02200	.07380	.07080	.00120	-.00140	-.00640	.00000	-.00180
.800	4.310	.13670	.06700	.06680	.00290	-.00170	-.00740	.00000	-.00120
.801	6.328	.24100	.06550	.06660	.00380	-.00150	-.00580	.00000	-.00180
.802	8.336	.32460	.06770	.07150	.00210	-.00100	-.00280	.00000	-.00120
.800	10.400	.42040	.07340	.06640	.00150	-.00150	-.00270	.00000	.00000
.800	12.430	.51200	.07570	.06420	.00150	-.00120	-.00300	.00000	.00000
.801	14.550	.60660	.08210	.03750	.00430	-.00240	-.00370	.00000	-.00180
.802	16.560	.72120	.08080	.05060	.00550	-.00280	-.00070	.00000	-.00120
.798	18.580	.82340	.07900	.05210	.00620	-.00260	-.00020	.00000	-.00060
.801	20.740	.92150	.08090	.06340	.00400	-.00180	.00020	.00000	.00120
.800	22.750	.97030	.08170	.09480	.00270	-.00080	-.00090	.00000	.00000
.799	24.710	.94780	.08000	.13890	-.00080	-.00030	-.00010	.00000	.00310
.797	26.740	.98710	.09010	.14970	.00530	-.00090	-.00080	.00000	-.00120
GRADIENT		.05209	-.00098	-.00146	.00041	-.00005	-.00026	.00000	.00020

RUN NO. 137/ 0 RV/L = 2.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CY	CYN	CBL	CHE	CHR
.635	-1.900	-.10710	.08590	.07680	.00180	-.00150	-.00430	.00000	-.00290
.801	.217	-.03130	.08210	.05720	.00180	-.00170	-.00410	.00000	-.00230
.898	2.299	.07600	.08910	.05100	.00250	-.00170	-.00410	.00000	-.00170
.801	6.448	.29190	.09180	.04530	.00060	-.00130	-.00130	.00000	-.00060
GRADIENT		.09791	.00053	-.00611	.00021	-.00005	.00005	.00000	.00029